CG
CAPTIVA MaXX

CG Captiva MaXX Owner’s Handbook

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Note Please refer to the inside front cover of the Service/warranty booklet for the Vehicle Identification Certificate.

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We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction and compliment you on your choice.

Due to different models and options, you may find reference in this handbook to some equipment not installed in your own vehicle.

Please note that all information, illustrations and specifications in this handbook are based on the latest production information available at the time of printing.

Holden reserves the right to make changes at any time without notice and without incurring any obligation.

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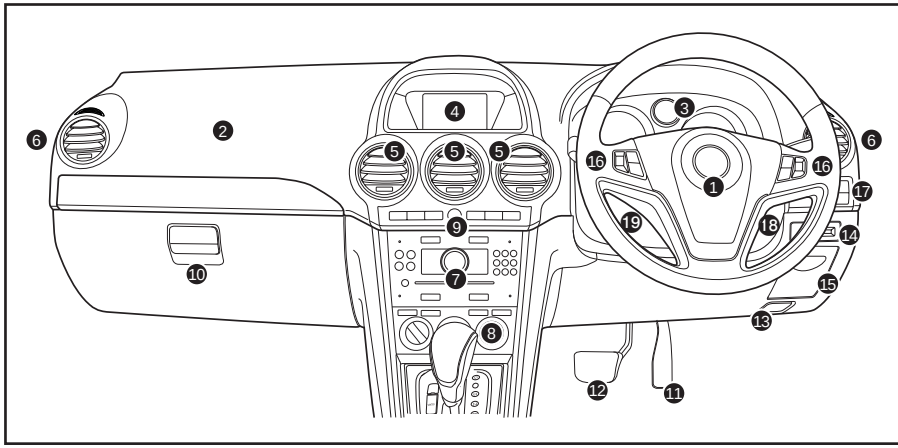
✻ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

LAYOUT



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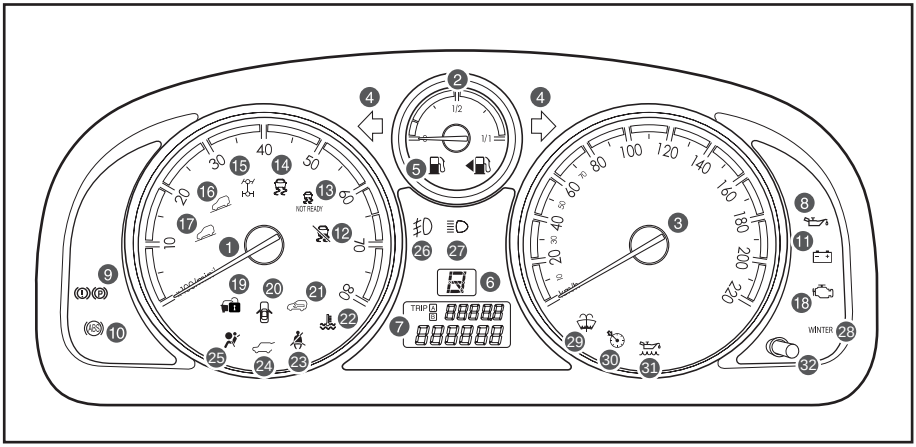
GAUGES



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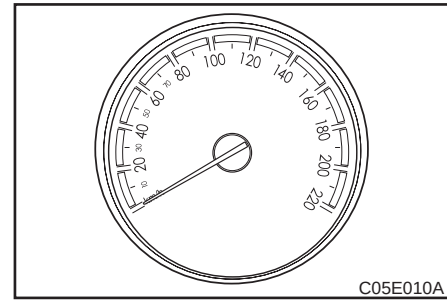
GAUGES cont.

Speedometer

The speedometer ❸ indicates the vehicle's speed in kilometres per hour (km/h).

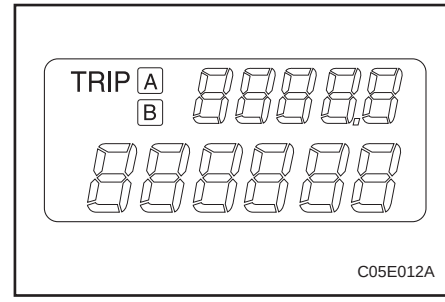


Odometer and tripmeter

The window between the tachometer and speedometer is used for the odometer and tripmeter ❼.

The odometer records the distance travelled since the vehicle was built, and the tripmeter records the distance travelled on a particular journey. The tripmeter can keep a record of two different journeys at the same time. The two trip odometers are distinguished as **TRIP A** and **TRIP B**.

The trip odometer reset button ㉝ is located at the lower right-hand side of the speedometer dial.



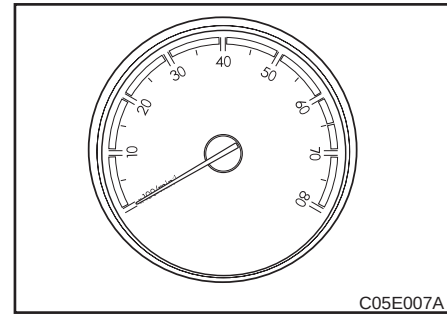
With the ignition switched on, push the trip odometer reset button ㉝ to change the display between the odometer, **TRIP A** and **TRIP B**. If the trip odometer reset button is pressed and held, the tripmeter resets to zero.

Tachometer

The tachometer ❶ indicates the engine speed in revolutions per minute (rpm). The red zone of the tachometer indicates critical engine speed. high/low beam

WARNING:

Never operate the vehicle with the tachometer needle in the red zone. Continued operation with the tachometer needle in the red zone will lead to serious engine damage.

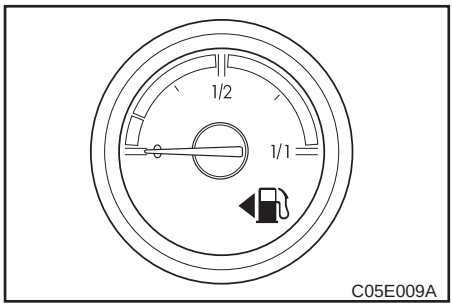


GAUGES cont.

Fuel gauge

The fuel gauge ❷ indicates the level of fuel within the fuel tank when the ignition switch is turned to the ON position. **F** represents full and **E** represents empty. The needle in the fuel gauge falls to **E** when the ignition switch is turned to the OFF position. The fuel tank content displays when the ignition switch is turned to the ON position.

Refer to Chapter 5, Fuel, for refuelling instructions.



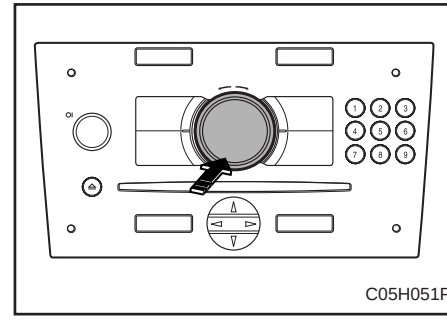
DRIVER INFORMATION DISPLAY (DID)

The driver information display (DID) displays information for the radio frequency, band, time and outside temperature when the ignition switch is in the ON position.

Selecting functions

The functions and settings can be accessed via the driver information display (DID).

Functions are selected and executed by using the multifunction knob on the audio system or the wheel on the left hand side of the steering wheel.


C05H051P

Using the multifunction knob

Turn:

Turn the knob to mark menu items or commands.

Press:

Press to select the marked item and confirm the command.

Using the steering wheel multifunction control

Move upward:

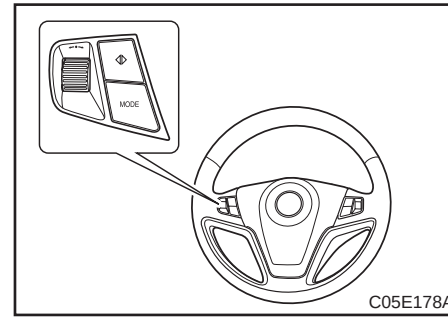
Previous menu item.

Move downward:

Next menu item.

Press:

Press to select marked item and to confirm the command.



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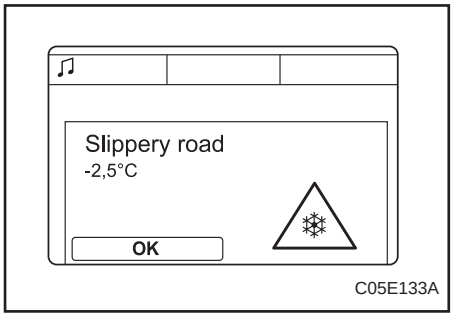
DRIVER INFORMATION DISPLAY (DID) cont.

Outside temperature

This mode indicates the temperature outside the vehicle.

Note: If the temperature is below -5ºC, no message will be displayed.



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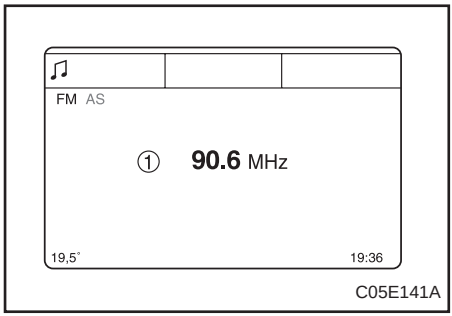
Radio station display

This mode displays the band and frequency of the radio station selected.



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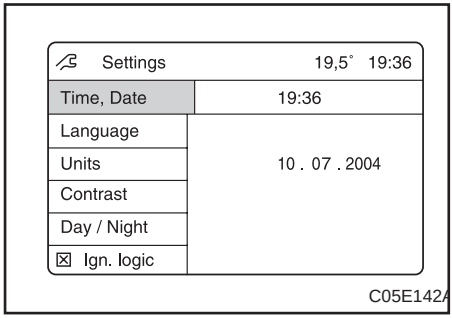
System settings

Settings are accessed via the settings menu.

Press the settings button on the audio system and the settings menu will be displayed.



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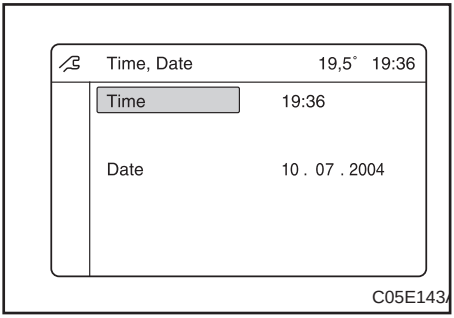
Setting date and time

Select menu items, time and date from the settings menu, select the item to change and adjust to the desired setting.



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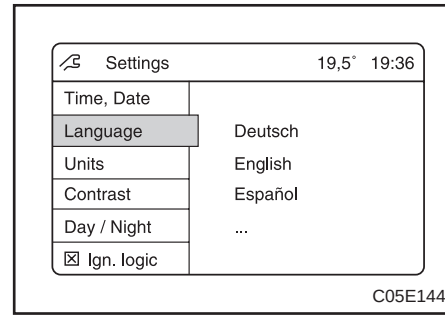
DRIVER INFORMATION DISPLAY (DID) cont.

Language selection

The display language can be selected for some functions, select menu item, Language from the settings menu.

The available languages are shown opposite.



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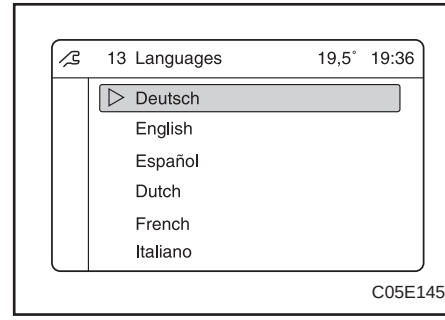
Select the desired language

Selections are indicated by ► in front of the menu item.



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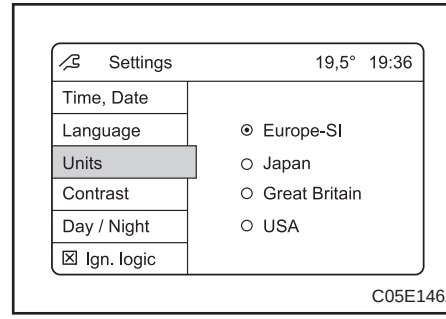
Setting units of measure

The unit of measure to be used can be selected from the settings menu, selections are indicated by ● in front of the menu item.

Note: for Australia and New Zealand select the "Europe - SI" option.



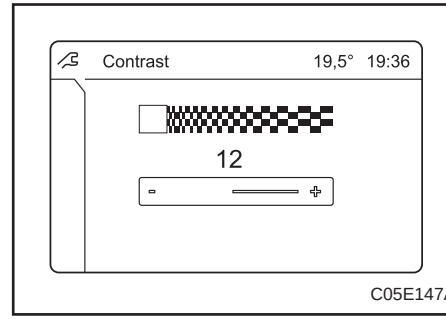
C05E146A

Adjusting display mode

The display can be adjusted to suit the light conditions, black or coloured text on a light background or white or coloured text on a dark background. Select from the settings menu Day/Night then select the option desired.

Adjusting display contrast

Select from the menu item, Contrast and adjust as required.



C05E147A

WARNING LAMPS

Anti-lock brake system (ABS)

The ABS warning lamp illuminates when the ignition switch is turned to the ON position, and goes out after approximately 4 seconds.

If the ABS warning lamp exhibits any of the following conditions:

- does not flash or stays on when the ignition is in the ON position,
- stays on after several flashes,
- flashes while driving,
- stays on continuously while driving,

contact your Holden Dealer immediately.

Note: This lamp indicates the anti-lock braking system is not operating, although the vehicle's brake system will still operate conventionally, refer to Chapter 4, Driving.

Air bag and supplemental restraint system (SRS)

To check if the warning lamp is working, the SRS warning lamp flashes several times when the ignition switch is first turned to the ON position.

If the SRS warning lamp exhibits any of the following conditions:

- does not flash or stays on when the ignition is in the ON position,
- stays on after several flashes,
- flashes while driving,
- stays on continuously while driving,

it indicates the air bag system or seat belt pretensioner system may not function correctly, especially in an accident. Contact your Holden Dealer immediately.

Low fuel

Illuminates when the ignition switch is turned to the ON position and goes out after approximately 4 seconds.

The low fuel indicator lamp displays when the fuel tank is approaching empty. When the low fuel lamp illuminates add fuel as soon as possible.

WARNING LAMPS cont.

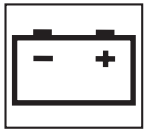
Brake

The brake warning lamp displays when the ignition switch is in the ON position and the engine is not running, as a check to show you it is working properly. The lamp also displays when the park brake is engaged. The lamp extinguishes when the park brake is released.

If the brake warning lamp displays while you are driving and the park brake is fully released, you should stop the car as soon as possible and contact your Holden Dealer immediately.

WARNING:

Driving with the brake warning lamp on can lead to an accident. Have the brakes checked immediately by your Holden Dealer if the brake warning light stays on.



Battery

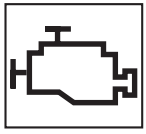
The battery warning lamp illuminates when the ignition switch is turned to the ON position, and remains on until the engine is started.

If the lamp illuminates when driving, this may indicate the alternator is not charging the battery. If the alternator drive belt is intact, there is a problem in the charging system and you should contact your Holden Dealer.

Oil pressure

The oil pressure lamp illuminates when the ignition switch is turned to the ON position, and will remain illuminated until the engine is started.

If the oil pressure lamp is illuminated while driving, this indicates the oil pressure is dangerously low. Stop the vehicle as soon as possible and check the engine oil level (refer to Chapter 7, Weekly checks). Do not drive the vehicle with the oil pressure indicator lamp illuminated, contact your Holden Dealer.



Check engine (MIL) lamp

The malfunction indicator lamp monitors the emission control system. This lamp should come on when the ignition switch is in the ON position and the engine is not running. If it stays on or comes on while you are driving, there may be a problem with this system, contact your Holden Dealer.

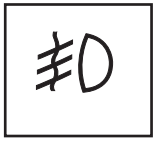
WARNING:

If you keep driving your vehicle with the malfunction indicator lamp on, after a while, your emission control system may not work as well, your fuel economy may not be as efficient and your engine may not run as smoothly. This could lead to costly repairs.

WARNING LAMPS cont.

Winter mode indicator
The winter mode indicator illuminates when the winter mode button is pressed, use this mode to drive away smoothly during icy and slippery road conditions.

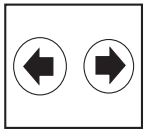
Shift select position indicator (Automatic transmission)
Displays the position of the automatic transmission shift select lever.



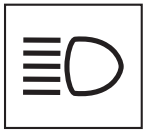
Front fog lamp indicator
Illuminates when the front fog lamps are switched on.

Driver's seat belt reminder
When the ignition switch is turned to the ON position, the seat belt reminder lamp comes on for approximately 4 seconds to remind the driver to fasten the seat belt, if the seat belt is not fastened after the engine has been started the lamp will flash for approximately 90 seconds and then stay illuminated continuously until the drivers seat belt is fastened. When the vehicle is driven away and the speed is above 22 kph the lamp will flash again and a warning chime will sound for approximately 90 seconds, after which the lamp will stay illuminated continuously until the drivers seat belt is fastened.

If the driver's belt is buckled, neither the chime nor the light will come on.



Turn signals
When the turn signal switch or hazard warning light switch is switched on, the turn signal indicator lamp (within the instrument panel) flashes to indicate operation of the turn signal lamps or hazard warning lamps.



High beam
This indicator lamp is illuminated when the headlamps high beams are in use.

WARNING LAMPS cont.

Electronic stability program (ESP®) off indicator

When the ignition switch is turned to the ON position, the ESP® indicator illuminates for approximately 4 seconds. The ESP® off indicator will illuminate after the button on the centre of the instrument panel has been pressed.

Electronic stability program (ESP®) not ready indicator

When the ignition switch is turned to the ON position, the ESP® not ready indicator illuminates for approximately 4 seconds. The ESP® not ready indicator illuminates to indicate the ESP® is not ready for operation.

Electronic stability program (ESP®) active and warning lamp

When the ignition switch is turned to the ON position, the ESP® indicator illuminates for approximately 4 seconds. This lamp flashes while ESP® is operating and illuminates constantly to indicate there is a malfunction in the system, consult your Holden Dealer.

Descent control system (DCS) active and not ready warning lamps

When the ignition switch is turned to the ON position, the DCS indicator illuminates for approximately 4 seconds. The green DCS lamp illuminates when DCS is activated by pressing the DCS button in the centre of the instrument panel and flashes while DCS is active, the amber DCS lamp indicates the DCS is not ready or there is a malfunction in the system, consult your Holden Dealer.

Immobiliser system

When the ignition switch is turned to the ON position, the immobiliser indicator illuminates for approximately 4 seconds. This lamp illuminates continuously to indicate there is a malfunction in the system, consult your Holden Dealer.

Low windscreen washer fluid

When the ignition switch is turned to the ON position, the low washer fluid indicator illuminates for approximately 4 seconds. This lamp indicates the fluid in the washer reservoir is low and must be refilled.

WARNING LAMPS cont.

Service vehicle soon

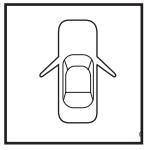
When the ignition switch is turned to the ON position, the SVS indicator illuminates for approximately 4 seconds. The lamp should extinguish after the engine has been started. The service vehicle soon lamp will illuminate if a malfunction exists in the non-emission related components or the related sub systems, consult your Holden Dealer.

WARNING:
If you keep driving your vehicle with the service vehicle soon lamp on, damage may result in the non-emission related components or related sub systems. This could lead to costly repairs.

Engine coolant temperature

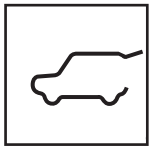
When the ignition switch is turned to the ON position, the coolant temperature indicator illuminates for approximately 4 seconds.

If the engine coolant warning illuminates while driving, it indicates the engine coolant temperature is excessively hot. It is advisable to stop the vehicle as soon as it is safe to do so. If the lamp does not extinguish, consult your Holden Dealer.



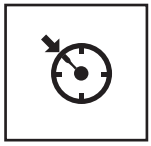
Door ajar warning

Illuminates when a door is open or not securely latched.



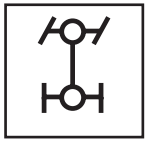
Tailgate ajar warning

Illuminates when the tailgate is open or not securely latched.



Cruise control indicator

Illuminates when the cruise control has been set and extinguishes when cruise control is switched off.



All wheel drive system (AWD)

When the ignition switch is turned to the ON position, the AWD indicator illuminates for approximately 4 seconds. The lamp flashes when the AWD system is temporarily disabled and remains on continuously when there is a malfunction in the AWD system.

WARNING LAMPS cont.

Engine oil warning

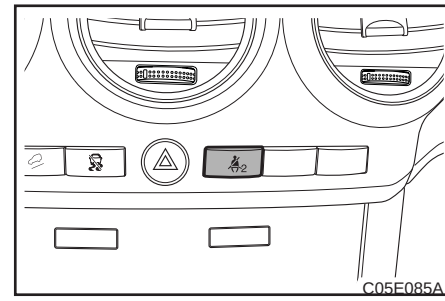
When the ignition switch is turned to the ON position, the engine oil warning illuminates for approximately 4 seconds.

If the engine oil warning lamp is illuminated while driving, this indicates the oil level is dangerously low. Stop the vehicle as soon as possible and check the engine oil level (refer to Chapter 7, Weekly checks). Do not drive the vehicle with the engine oil level indicator lamp illuminated, contact your Holden Dealer.

Front passenger seat belt reminder

When the ignition switch is turned to the ON position, the front passenger seat belt indicator illuminates for approximately 4 seconds. This indicates the system performs a self check and then the lamp extinguishes if the front passenger seat is not occupied.

When the front passenger seat is occupied, the engine started and the front passenger seat belt is not fastened, the lamp will flash for 90 seconds and then illuminate continuously until the front passengers seat belt is fastened.



AUDIO SYSTEM

Features

The audio system includes an AM - FM Radio and MP3 / CD player.

Security system

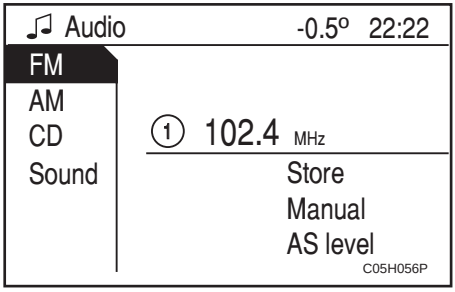
Your audio unit includes an electronic security system to prevent theft. This security system allows the audio system to operate only in your vehicle, if the audio system is removed for any reason it will not function in another vehicle.

Menu concept

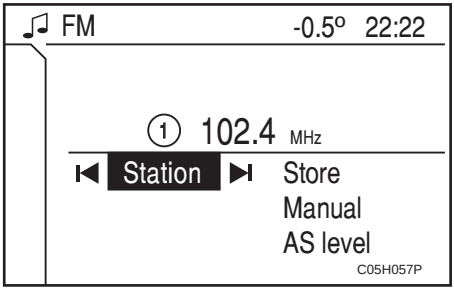
The audio system's menu structure features various types of menu pages:

- Selection pages
- Feature pages
- Settings pages.

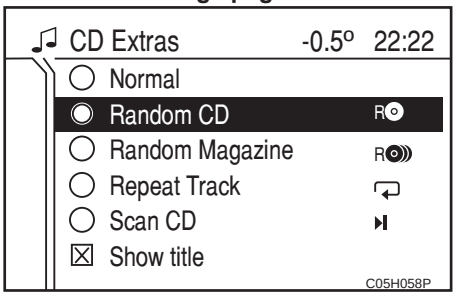
Selection pages



Feature pages



Settings pages

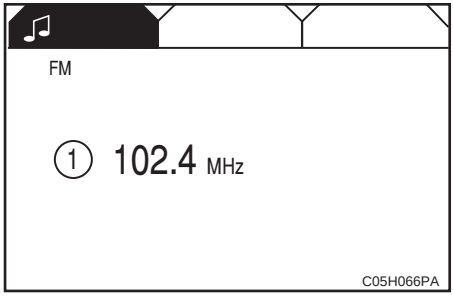


Main menu

The main menu is the display that provides the user with audio system information.

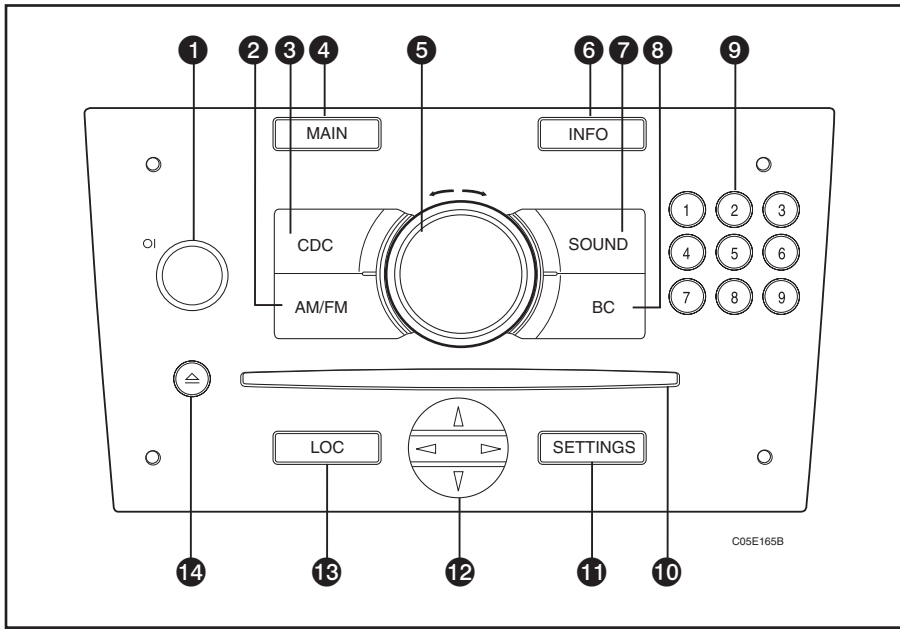
To access the main menu proceed as follows:

1. Turn the multifunction knob ❺ to the right until menu item "Main" appears.
2. Press the multifunction knob ❺.
3. The main menu will be displayed.



AUDIO SYSTEM cont.

CD player and radio controls



Display and functions

❶ Power / volume knob

❷ AM/FM button

❸ CD player program selection

❹ Main menu button

❺ Multifunction knob

❻ Information page button

❼ Sound function program button

❽ Body computer
(Not applicable for this vehicle)

❾ Radio station buttons

❿ CD slot

⓫ Settings button

⓬ Radio and CD 4 way switch

⓭ Adjust the sensitivity of station search

⓮ CD player menu

AUDIO SYSTEM cont.

Control buttons

Power on
When the power is OFF press the ⏻ power/volume rotary knob ❶ to activate the audio system, or the ⏏ button ⓮ to activate the CD player. The radio, CD or MP3 function will be shown on the display screen. The operating mode will be the same as before the audio system was switched off.

Power off
When the power is ON press and hold the ⏻ power/volume rotary knob ❶ to switch the system OFF.

Automatic power on
If the automatic switch on is enabled, the audio system can be switched off and on via the ignition switch. The link between the audio system and the ignition is preset in the factory, it can also be disabled.

Enable/disable ignition logic
1. Select the main menu.
2. Press the SETTINGS button ⓫.
3. Select the enable/disable ignition logic tick box.
4. Enabled ☒, on the right-hand side of the display this message appears "The radio will be switched on/off automatically with the ignition".
5. Disabled ☐, on the right-hand side of the display this message appears "The radio can only be switched on via ON/OFF button".

Automatic switch off
The audio system switches off automatically after one hour if it has been switched on with the ignition switch in the OFF position.

Volume control
Rotate the ⏻ power/volume rotary knob ❶ clockwise to increase the volume and counterclockwise to decrease the volume.

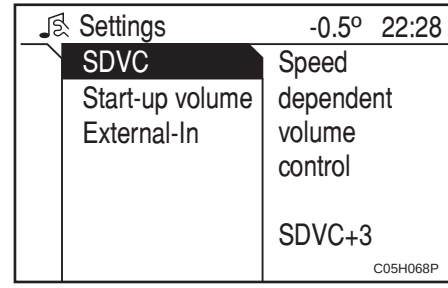
AUDIO SYSTEM cont.

Speed dependant volume control (SDVC)

To compensate for the ambient and rolling noise, the volume of the audio system is adjusted to the speed of the vehicle. The SDVC function can be used to adjust the speed dependant volume setting.

This function is set in the tuner menu FM/AM button ❷ or the CDC button ❸.

1. Press the SETTINGS button ⓫.
2. The audio settings menu will be displayed, select from the menu Volume.
3. The volume menu will be displayed, select from the menu SDVC.
4. A slider for SDVC will be displayed.
5. Turn the multifunction knob ❺ until the desired value is set.
6. Press the multifunction knob ❺ to store the selection, the settings menu will be displayed.



Volume menu

The following items are available in the volume menu:

- SDVC – Speed dependant volume control
- Start up volume – Maximum volume at switch on.

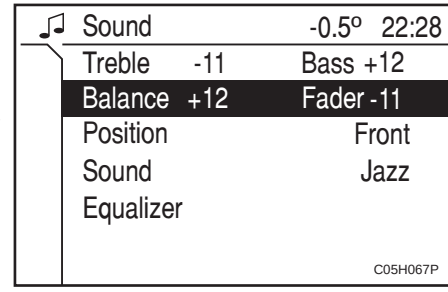
Start up volume

This function is set in the tuner menu FM/AM button ❷ or the CDC button ❸.

1. Press the SETTINGS button ⓫.
2. The audio settings menu will be displayed, select from the menu Volume.
3. The volume menu will be displayed, select from the menu Volume at switch-on.
4. A slider for adjustment of the maximum volume at switch on will be displayed.
5. Turn the multifunction knob ❺ until the desired value is set.
6. Press the multifunction knob ❺ to store the selection, the settings menu will be displayed.

Sound settings

Select from the sound menu that is displayed when the SOUND button ❼ is pressed or via the audio menu, the following menu items are listed.



AUDIO SYSTEM cont.

Bass control

Bass control is used to adjust the bass (low frequency) sound quality. The bass settings apply to the currently selected audio source and are stored separately for FM/AM radio and the CD player.

1. Select from the menu item, Treble - Bass from the sound menu and the Treble - Bass menu will be displayed.
2. Select the menu item Bass, the bass slider will be displayed.
3. Rotate the multifunction knob ❺ clockwise to increase the bass level, counterclockwise to decrease the bass level.
4. Press the multifunction knob ❺ to store the selection.

Treble control

Treble control is used to control the treble (high frequency) sound quality. The treble settings apply to the currently selected audio source and are stored separately for FM/AM radio and the CD player.

1. Select the menu item Treble - Bass from the sound menu and the Treble - Bass menu will be displayed.
2. Select the menu item Treble, the treble slider will be displayed.
3. Rotate the multifunction knob ❺ clockwise to increase the treble level, counterclockwise to decrease the treble level.
4. Press the multifunction knob ❺ to store the selection.

Fader control

Fader control adjusts the sound separation between the front and rear speakers.

1. Select from the menu item, Balance - Fader from the sound menu and the Balance - Fader menu will be displayed.
2. Select from the Balance - Fader menu Fader, and the fader slider will be displayed.
3. Rotate the multifunction knob ❺ clockwise to bias the sound toward the front speakers.
4. To bias the sound toward the rear speakers, rotate the multifunction knob ❺ counterclockwise.
5. Press the multifunction knob ❺ to store the selection.

AUDIO SYSTEM cont.

Balance control

Balance control adjusts the volume separation between left-hand and right-hand speakers.

1. Select the menu item Balance - Fader from the sound menu and the Balance - Fader menu will be displayed.
2. Select from the Balance - Fader menu Balance, and the balance slider will be displayed.
3. Rotate the mutifunction knob ❺ clockwise to bias the volume to the right-hand speakers.
4. To bias the volume to the left-hand speakers, rotate the multifunction knob ❺ counterclockwise.
5. Press the multifunction knob ❺ to store the selection.

Equalizer music control

The equalizer is used to select between 7 pre-defined sound equaliser settings.

1. Select the menu item Equalizer, from the sound menu.
2. The equalizer menu will be displayed.
3. A slider is provided for each of the 7 frequencies.
4. Select the desired sound frequency, and the slider will be marked.
5. Rotate the multifunction knob ❺ clockwise or counterclockwise to change the equalised music style.
6. Press the multifunction knob ❺ to store the selection.

Position

This function is used to optimise the surround sound (running time, frequency response and volume) using preset values.

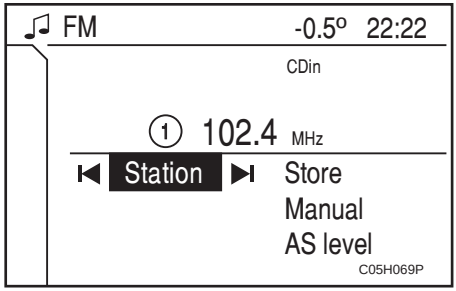
1. Select the menu item Position, from the sound menu the following options will be displayed:
   - Driver: Optimization of surround sound for the driver
   - Front: Optimization of surround sound for the front seats
   - All positions: Optimization of surround sound for all seats.
2. Select the desired option.

Sound

1. Select the menu item Sound, from the sound menu the following options will be displayed: User, Jazz, Speech, Pop, Classical, Rock.
2. Select the desired option.

AUDIO SYSTEM cont.

Radio



1. Switch the audio system on by pressing the ○| power/volume knob ❶.
2. Press the **AM/FM** button ❷.
3. The tuner menu will be displayed and the last station selected to will be playing.

Selecting a radio band

The following bands are available: AM and FM.

1. With the tuner menu displayed turn the multifunction knob ❺ to the left until the menu item Return is displayed.
2. Press the multifunction knob ❺ and the audio menu will be displayed.
3. Select the desired band, AM or FM.
4. The last station selected will be displayed and playing.

Manual station search

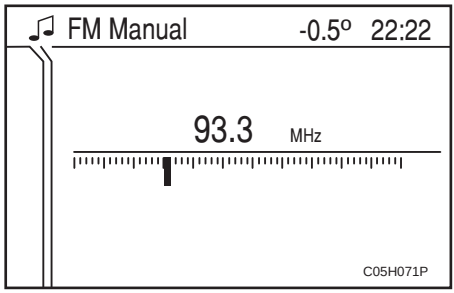
1. Choose either AM or FM band using the AM/FM button ❷.
2. Press and hold the 4 way switch ⓬ ▲ or ▼ button until the desired frequency is reached.

Coarse tuning:
Press and hold the 4 way switch ⓬ ▲ or ▼ button until the desired frequency is almost reached.

Fine tuning:
Tap the 4 way switch ⓬ ▲ or ▼ button repeatedly until the exact frequency is reached.

Manual tuning

The station search using the multifunction knob ❺ is started from the AM/FM button ❷ menu.



1. Select the menu item Manual, from the tuner menu.
2. A slider with the entire waveband will be displayed, turn the multifunction knob ❺ until the exact frequency is reached.
3. The newly tuned radio station will be playing.
4. Press the multifunction knob ❺ to store the selection.
5. The tuner menu is displayed.
6. The newly tuned in station will be displayed.

AUDIO SYSTEM cont.

Local/DX function (LOC)

The LOC function has two search levels with different sensitivities.

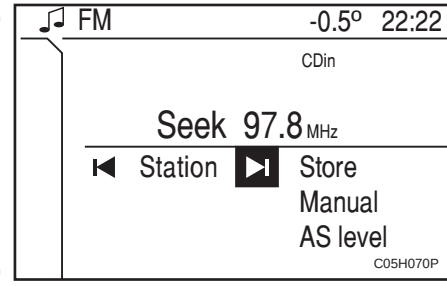
1. Press the **LOC** ⓭ button, the current status LOC ON or LOC OFF will be displayed.
2. Press the **LOC** ⓭ button again to switch on the LOC function.

- The first search carried out is at the lower sensitivity (LOCAL) to look for the station with the next strongest signal. If the radio can not find a station with a strong signal, the second search is carried out at a more sensitive level (DX) to find stations with weak signals.
- If the second search does not find a station, the most recently active frequency is restored.
- If no further search is started within a minute, the lower sensitivity level (LOCAL) is automatically reset for the next search.
- The LOCAL/DX function setting can not be changed in CD/MP3 mode.
- If the setting is LOC OFF, a high sensitivity search (DX) is carried out.

Automatic station search (option 1)

The radio searches for the next receivable station, if LOC is active, the radio searches for a station with the next strongest signal. If it is not active, the radio searches for the next station with signal. Refer to Local/DX function, in this section.

Press and hold the 4 way switch ⓬ ◄ or ► button until Seek is displayed.



Automatic station search (option 2)

Select the menu item ◄ or ► in the radio menu, the radio will be muted until the station is found.

If the frequency of the station is known, keep the 4 way switch ⓬ ◄ or ► pressed until the frequency is almost reached.

After releasing the 4 way switch, the next receivable station is automatically tuned in.

If the radio can not find a station, it switches automatically to a more sensitive search level (DX). If a station still can not be found the last active station will be set.

Station memory

Separate memory slots are available for each wavelength (FM, AM) as follows:

- 9 X FM stations, manually stored
- 9 X FM-AS stations, automatically stored
- 9 X AM stations, manually stored
- 9 X AM-AS stations, automatically stored.

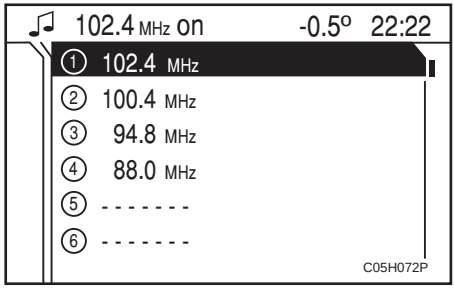
The memory slots can be selected directly in the respective wavelength via the station buttons ❾ or via the list of stations.

AUDIO SYSTEM cont.

Manual storing (option 1)

Two options are available for manual station storing:

1. Tune into the desired station, refer to automatic station search in this section.
2. Press and hold the station button ❾ on which the tuned in station is to be stored.
3. The radio will be muted for a short time and will display the station previously stored in this memory slot.
4. The station tuned in will be audible again and the frequency displayed.



5. The station is now stored in the selected memory slot.

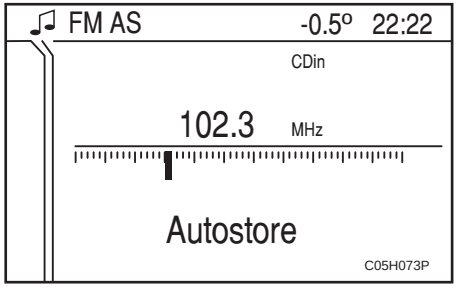
Manual storing (option 2)

1. Press the tuner menu FM/AM button ❷.
2. Set the desired station, refer to automatic station search in this section.
3. Select from the menu Store.
4. A list of stored stations is displayed, select the memory slot required.
5. The tuner menu is displayed showing the new memory slot.
6. The station is stored in the desired memory slot.

Autostore (AS)

Automatic storing (AS) of any receivable station is possible in all wavebands. These stations are stored in a separate AS memory.

1. Press the tuner menu FM/AM button ❷.
2. Select from the menu Autostore. The Autostore menu is displayed and automatic station storing commences.
3. Nine stations with the strongest signal from the waveband selected will be stored to the memory slots 1 to 9.
4. After the stations have been stored, the desired station can be selected by pressing the appropriate station button ❾. Refer to selecting a station, in this section.



Note: If you drive out of the reception area of a stored station then new stations will need to be stored.

AUDIO SYSTEM cont.

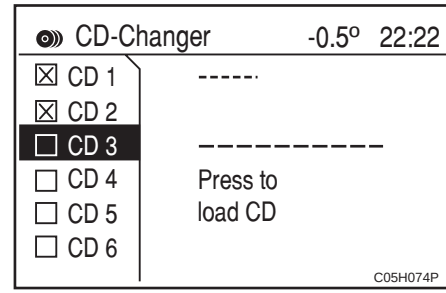
Selecting a station

The desired radio band and mode need to be active, refer to selecting a radio band, in this section.

With the radio on and with a station playing select the desired station with the radio station buttons ❾.

CD AND MP3 PLAyER

Loading CD's



1. The audio system is equipped with a CD player for six disks.
2. Switch the audio system on by pressing the ⏻ power/volume knob ❶.
3. The audio source last selected is displayed.
4. The audio source last set is played.
5. Select an empty CD compartment.
6. Please insert CD now will be displayed, insert the CD into the CD slot ❿.
7. The CD is automatically drawn inward, do not assist or prevent the CD from being drawn in.
8. Reading CD X will be displayed (X is the number of the CD slot), the tick box of the CD slot is marked enabled.
9. In the upper area of the display "CDin" is displayed for audio CD's and MP3 is displayed for MP3 disks.
10. The CD changer menu will not cancel until the CDC button ❸ is pressed, this allows more CD's to be inserted.

Note: In the CD changer menu, the radio will play while changing CD's.

CD Playback

Switch from radio mode to CD mode as follows:

1. Ensure one or more CD's are in the CD player.
2. Press the CDC button ❸, the CD menu will then be displayed.
3. The CD will begin to play from the selected compartment.
4. Depending on the type of CD, different information will be displayed in the CD menu. Text information is only displayed if Show title is switched on from the extras menu.

AUDIO SYSTEM cont.

The following information will be displayed:

- Audio CD: CD number, album name, track title and artist (depending on CD format)
- MP3 or mixed mode CD: CD number, album name, track title and artist
- Text CD: CD number, CD title, track number, track title and artist.

Note: If no CD's are inserted, the CD changer menu will be displayed, refer to loading CD's in this section.

Track selection (option 1)

For audio CD's, the track is selected from the CD, for MP3 and mixed mode CD's the track is selected from the album.

With a CD playing, tap the 4 way switch ⓬ ◄ or ► repeatedly until the desired track is displayed.

Track selection (option 2)

1. After pressing the CDC button ❸ turn the multifunction knob ❺ until menu item ⏮ or ⏭ is marked.
2. Press the multifunction knob ❺ repeatedly until the desired track is displayed.
3. The selected track will play.

Track selection (option 3)

1. After pressing the CDC button ❸ select the menu item "Track".
2. A list of all tracks will be displayed.
3. The track that is currently playing will be marked with an arrow.
4. Select the desired track, the CD menu is displayed and the newly selected track is displayed.
5. The newly selected track will begin to play.

Fast search (option 1)

To find a certain point on a CD proceed as follows:

1. While a track is playing, press and hold the 4 way switch ⓬ ◄ or ► until you reach the point desired.
2. The CD will play at an increased speed and reduced volume.

Fast search (option 2)

1. After pressing the CDC button ❸, select menu item ◄◄ or ►►.
2. The CD will play at an increased speed and reduced volume.
3. Select the menu item ◄◄ or ►► again when the desired passage is reached.

Note: The fast search is not audible with MP3 tracks.

AUDIO SYSTEM cont.

Selecting a CD (option 1)

1. While a track is playing, press the appropriate number key button ❾, the CD player is muted.
2. If a CD has not yet been read "CD reading" appears on the display, the CD compartment selected and the track is displayed.
3. The CD will now be playing from the compartment selected.

Selecting a CD (option 2)

1. Tap the 4 way switch ⓬ ▲ or ▼ repeatedly until the desired CD compartment is marked.
2. The CD player will be muted, if a CD has not yet been read "CD reading" appears on the display.
3. The CD compartment selected and the track are displayed.
4. The CD will now be playing from the compartment selected.

Selecting a CD (option 3)

1. Starting from the CD menu, CDC button ❸ , select the desired CD as follows:
2. Select from the menu "CD", a CD album list is displayed.
3. The selected CD will be underlined.
4. Select the desired CD, the newly selected CD will be displayed.
5. The newly selected CD will now be playing.

Note:

- If no other CD's are inserted, playback of the current CD will continue.
- If it is an MP3 or mixed mode CD with several albums, these are also shown on the list.
- If it is a mixed mode CD, the tracks from the audio port are played first.

Album or CD selection for MP3 or mixed CD's (option 1)

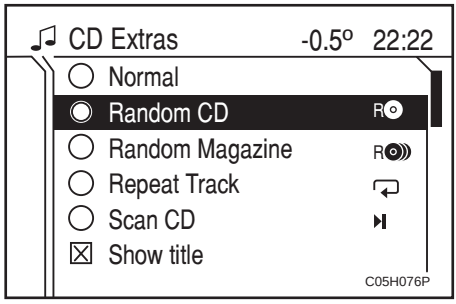
1. While a track is playing, press the 4 way switch ⓬ ▲ or ▼ until the album or CD you want is displayed.
2. The first track from the CD or album will play.

Album or CD selection for MP3 or mixed CD's (option 2)

1. After pressing the CDC button ❸, select menu item "Album", a CD album list will be displayed.
2. The current CD is underlined and the album which has just been played is marked with an arrow.
3. Select the album or CD desired, the CD menu will be displayed.
4. The first track from the newly selected album or CD is displayed.
5. The newly selected track will play.

AUDIO SYSTEM cont.

CDC extra features



1. The following option fields are available in the "Extras" menu.
2. Normal: This option is used to disable the functions random CD/magazine, repeat track and scan CD.
3. Random CD: See random play CD or magazine random.
4. Random magazine: See random play CD or magazine (random).
5. Repeat track: See Repeat track in this section.
6. Scan CD: See scan CD in this section.
7. Show title: See enabling/disabling CD text in this section.

Random play CD or magazine (random)

- Audio CD: If playing a audio CD using random play, the tracks of the CD will be played in a random order.
- MP3 CD: If there are 5 or fewer albums on an MP3 CD, 4 tracks per album are played in random order. If there are more than 5 albums on the MP3 CD, one track respectively is played per album.
- Mixed mode CD: On a mixed mode CD, the tracks from the audio port are played first in random order, then the tracks from the MP3 part are played as described above.

To switch on CD random play

1. After pressing the CDC button ❸, select menu item "Extras".
2. The Extras menu is displayed, select option field "Random CD".
3. The CD menu is displayed and the symbol R● is displayed.

Random magazine (random)

In random magazine mode the tracks of all the CD's inserted are played in random order.

Audio CD: 4 tracks per CD are plated before changing to the next CD.

MP3 CD: If there are 5 tracks or fewer albums on an MP3 CD, 4 tracks per album are played before changing to the next CD. If there are more than 5 albums, one track per album is played before changing to the next CD.

Mixed mode CD: On a mixed mode CD, first of all 4 tracks from the audio part are played in random order and then the system changes to the next CD. The next time the system changes to the mixed mode CD, the tracks from the MP3 part are played as described above.

Note: These rules protect the mechanical system and avoid relatively long interruptions caused by changing CD's.

AUDIO SYSTEM cont.

Switch on random magazine (random)
1. After pressing the CDC button ❸, select menu item "Extras".
2. The extras menu will be displayed, select option field "Random Magazine".
3. The CD menu is displayed and the symbol R is displayed.

Switch off random play CD or magazine (random)
1. After pressing the CDC button ❸, select menu item "Extras".
2. The extras menu will be displayed, select option field "Normal".
3. The CD menu is displayed and the symbol R or R is no longer displayed.

Switching on repeat track (option 1)
The repeat track function repeats the current track.
1. While a track is playing, press and hold the 4 way switch ⓬ ▼ until the ↩ symbol is displayed.
2. "Repeat ON" is displayed for 3 seconds, and the track is played back continuously.

Switching on repeat track (option 2)
1. After pressing the CDC button ❸, select menu item "Extras".
2. The extras menu will be displayed, select option field "Repeat Track".
3. The CD menu is displayed and the symbol ↩ is displayed, and the track is played back continuously.

Switching off repeat track (option 1)
1. Hold the 4 way switch ⓬ ▼ until the ↩ symbol is no longer displayed.
2. "Repeat OFF" is displayed for about 3 seconds.

Switching off repeat track (option 2)
Select a new track, refer to track selection in this section.

Switching off repeat track (option 3)
1. After pressing the CDC button ❸, select menu item "Extras".
2. The extras menu will be displayed, select option field "Normal".
3. The CD menu is displayed and the symbol ↩ is no longer displayed.

Switching on scan CD (option 1)
The scan CD function plays the first 10 seconds of each track on the CD.
1. While a track is playing, press and hold the 4 way switch ⓬ ▼ until the ▶| symbol is displayed.
2. Then the text "Scan Tracks" will be displayed for 3 seconds.

AUDIO SYSTEM cont.

Switching on scan CD (option 2)

1. After pressing the CDC button ❸, select menu item "Extras".
2. The extras menu will be displayed, select option field "Scan CD".
3. The CD menu is displayed and the symbol ▶I is displayed.

Switching off scan CD (option 1)

1. Press and hold the 4 way switch ⓬ ▲ until the ▶I symbol is no longer displayed.

Switching off scan CD (option 2)

Select a new track, see track selection in this section.

Switching off scan CD (option 3)

1. After pressing the CDC button ❸, select menu item "Extras".
2. The extras menu will be displayed, select option field "Normal".
3. The CD menu is displayed and the symbol ▶I is no longer displayed.

Enabling and disabling CD text

Different information is displayed depending on whether CD text is enabled or disabled.

Enabled: CD Name, track name, artist's name, album name.

Disabled: Track number, CD-number, album number, playing time.

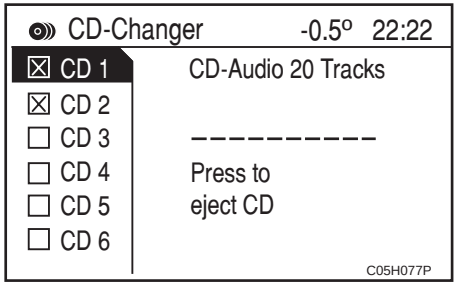
Note: Not all CD's contain text, In this case track number and playing time are always displayed.

1. After pressing the CDC button ❸, select menu item "Extras".
2. The extras menu will be displayed, select option field, enable/disable the "Show title" tick box.
   Enabled: ☒ or Disabled: ☐

Ejecting a CD

1. Press the ⏏ button ⓮.
2. The CD player menu is displayed.
3. Select the desired CD compartment.
4. The CD player will eject the CD.
5. Remove the CD.

Note: If the CD is not removed, after a short time it is automatically drawn back into the player.



AUDIO SYSTEM cont.

Removing all CD's

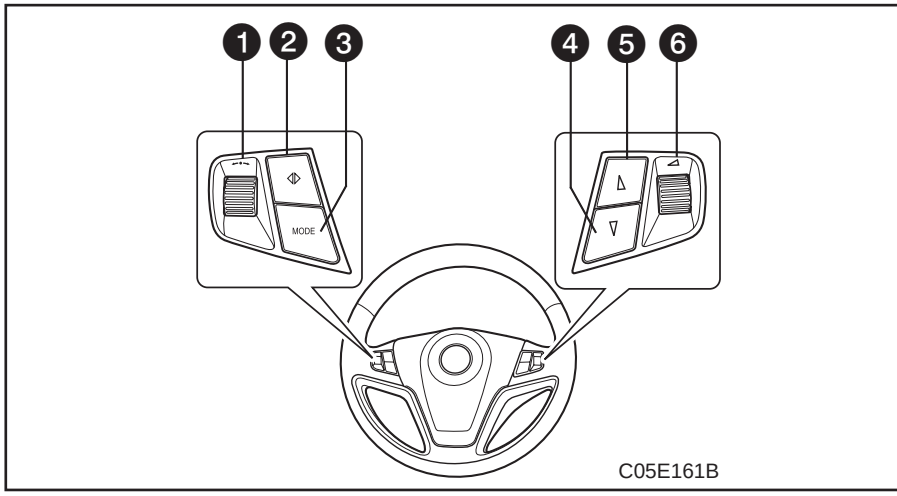
It is possible to remove all CD's from the player at the same time.

1. Press and hold the ⏏ button ⓮ for a relatively long time.
2. An overlay menu will be displayed with the message, "Eject all CD's".
3. Confirm with "OK" by pressing the multifunction button ❺.
4. The CD's will be ejected one after the other.

Note:

- If a CD is not removed, the CD is automatically re inserted and the ejection process is terminated.
- If the CD magazine is empty, the message "Magazine empty" will be displayed for 5 seconds.
- If a CD is ejected or inserted, the last radio station selected will automatically be played.

Steering wheel audio controls



❶ This setting wheel provides the same functions as the multifunction knob.

❷ Radio station and CD memory button.

❸ This button switches the audio system between radio and CD.

❹ Radio station search and CD player track search.

❺ Radio station search and CD player track search.

❻ This setting wheel provides volume adjustment for the radio and CD player.

AUDIO SYSTEM cont.

General information

Audio system faults
In case of faulty operation, consult your GM Holden Dealer.

Antenna
The AM/FM antenna is mounted on the roof of the vehicle.

Radio reception
Due to varying reception locations, audio systems have performance limitations that may on occasions create the impression that your radio is malfunctioning.

AM and FM
There are two types of radio broadcasts in Australia. Amplitude Modulation (AM) in which the amplitude of the signal is varied to produce the sound and Frequency Modulation (FM) in which the frequency is varied to produce the sound.

Range
AM broadcasts tend to follow the earth's curvature and also reflect from the upper atmosphere which enables long range reception especially after sunset.

FM transmissions are basically line-of-sight (similar to TV signals) and are reflected by buildings, mountains etc. but not by the upper atmosphere.

Interference
Interference is caused by local electrical disturbances. This can affect the amplitude of the signal being received.

AM signals are more prone to this type of interference than FM signals. This type of interference has little or no effect on the frequency of the received signal thus AM is susceptible to interference from power lines, fluorescent lighting, neon signs, traffic light control circuits, overhead tram wires and electrical storms.

With FM reception these amplitude variations are filtered out leaving a relatively clear signal, (refer to "Peculiarities of FM mobile reception" on the next page) making this one of the major advantages of FM broadcasts.

AUDIO SYSTEM cont.

Peculiarities of FM mobile reception

A mobile FM receiver can not be expected to continuously provide the quality of FM reception you may have experienced on your home receiver. Contrary to popular opinion, FM broadcasts are not static free, and although your new radio has a built-in electronic interference absorption circuit some static will be evident from time to time especially in areas without a direct line of sight to the transmitter.

Your radio is also equipped with a soft mute function. The purpose of this is to attenuate the treble and audio level in weak signal areas to reduce the annoying background hiss which is customary to weaker FM reception. There are two phenomena peculiar to FM reception:

- **Flutter -** As FM signals reflect off solid objects it is possible to pass through areas of “SHADOW” caused by tall buildings or hilly terrain which effectively blocks out the signal. As the vehicle passes in and out of shadow areas the level of signal will vary at a rapid rate, creating a flutter type of interference to the signal.
- **Distortion (multipath) -** Distortion may occur when the direct signal from the transmitter and a reflected signal reach the antenna at the same time and either cancel or aid each other, like ghosting on a TV. This results in intermittent distortion of the signal whilst moving or constant distortion when stationary such as at a traffic light or when parked.

  Should this distortion occur while stationary, moving the vehicle approximately 1 or 2 meters would on most occasions correct the problem. Circuitry has also been included in this radio to reduce this type of distortion.

Care Of your Audio System

Your audio system has been developed and manufactured with great care and should be treated with care.

Observing the recommendations listed below will prevent your warranty from expiring prematurely and ensure your enjoyment for many years. Heed the following when using your audio system:

Never try to open the audio system. Improper handling may damage the audio system.

Never use aggressive chemicals, cleaning liquids or agents to clean the audio system. To clean your audio system, use a soft cloth moistened with a mild soap solution.

Do not paint or color the audio system. Paint may make moving parts sticky and impair correct functionality.

Do not store combustible liquids, gases or explosives in the same room with the audio system, its parts or accessories.

The audio system should only be serviced by an approved repairer. Incorrect installation or servicing of the audio system may have dangerous consequences and result in your warranty becoming void.

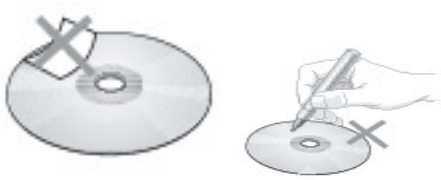
AUDIO SYSTEM cont.

Care Of your CD

Handle the CD by its edge and avoid touching the playing surface.

Directly after removal from the CD /MP3 slot, place the CD into the CD cover to prevent damage or soiling.

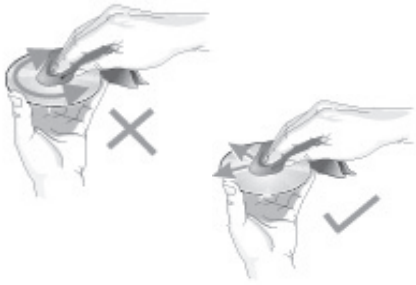
Do not stick paper or tape or write on either surface.



Do not expose the CD to direct sunlight or a heat source for example, a hot air duct.

Dirt and liquids on CDs may soil the audio systems CD player lens resulting in malfunction.

Before inserting a CD into the audio system, clean the CD with a cleaning cloth. Wipe the CD from the centre outwards, rather than in a circular motion. See illustrations.



Do not use solvents such as petrol, thinners etc. Use commercially available CD cleaners.

AUDIO SYSTEM cont.

Glossary Of terms

Automatic Station Search
Station search by tuner. The tuner will search until a station is found.

Autostore (AS)
The best receivable stations in the FM and AM wave bands can automatically be stored. The stations are stored in a separate AS memory.

If you leave the reception area of the stored stations, new stations can be stored.

Balance
Shifting of volume to left or right loud speaker.

Bass
Low frequency sound.

Treble
High frequency sound.

CD Text
Information stored on a audio CD title which include the following data:

- Track name,
- Artist's name,
- CD title.

Fader
Front / rear volume distribution.

MP3
CD audio data compression method developed by Fraunhofer Institute. Compression allows reduction of the amount of data to around 10% of the original volume without audible losses in sound quality (at a bit rate of 128 kbit/s). If lower bit rates are used to convert the CD audio data into MP3 then the files become even smaller but sound quality is reduced.

WMA
Windows Media Audio, a data compression method used to store audio data.

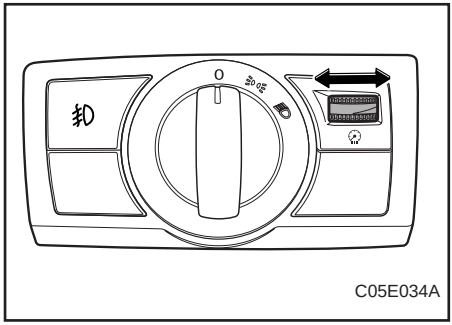
Random Play
The tracks on a CD are played back in random order.

DIMMER

Dimmer – instrument lighting

To adjust the instrument lighting brightness, ensure the headlights or park lights are switched on. To dim the instrument illumination, move the wheel to the left, to brighten the instrument illumination, move the wheel to the right.

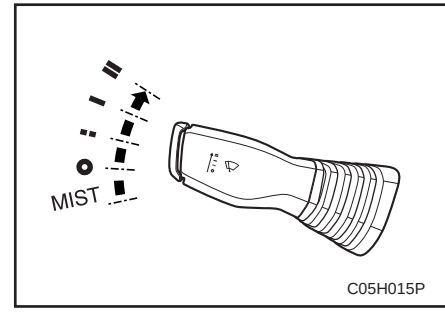
Note: When opening the driver's door or when pressing the unlock button on the remote keyless entry transmitter, the instrument panel lamps will illuminate automatically and stay illuminated for approximately 30 seconds or until the ignition switch is turned to the ACC (accessories) position.



WIPERS AND WASHERS

Windshield wipers

To operate the windshield wipers, turn the ignition switch to the ACC or ON position and move the windshield wiper / washer lever to one of the following five positions:



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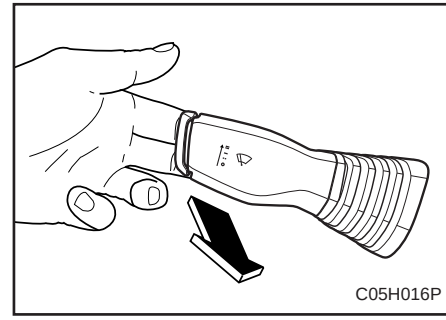
- **MIST:** To operate the wipers once in case of light rain or mist, move the windshield wiper lever downward and release it.
- **O :** System off. Default position.
- **- - :** Intermittent operation, to set the wiper interval to a value between 1 and 10 seconds, press the lever down from position **O**, wait the desired interval then set the lever one position upward to begin intermittent operation. As the vehicle speed increases the delay cycle time will automatically decrease.
- **—:** Continuous wipe, slow speed. Move the lever up two levels.
- **=:** Continuous wipe, fast speed. Move the lever up three levels.

Windshield washer

To spray washer fluid onto the windshield, pull the windshield wiper lever toward you. Even if the wiper setting is not selected, the washer will spray fluid and the wipers will operate for two cycles, pause for 2 seconds then wipe for one more cycle.

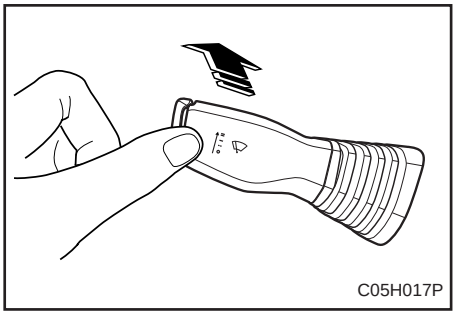

C05H016P

Note: Never operate the wipers on dry glass, as this would damage the rubber and scratch the windshield. Ensure the wipers are clear of any snow or ice before switching them on.

WIPERS AND WASHERS cont.

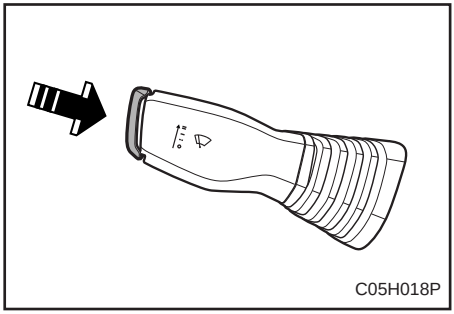
Rear wiper

To switch the rear wiper on, push the wiper lever toward the instrument panel, the wiper will operate with a regular cycle.


C05H017P

Rear washer

To spray washer fluid push the button at the end of the lever until the washer begins. When the button is released the washers will stop and the wipers will continue to wipe for three cycles.

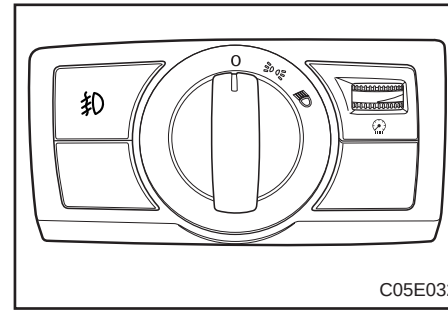

C05H018P

HEADLAMPS and FOG LAMPS

Headlamp switch controls

The headlamp switch controls the following:

- **O** Headlamps off
- Tail lamps, Parking lamps, Number plate lamps, Instrument panel lamps are illuminated.
- The low beam headlamps and all of the above lamps are illuminated.



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Rotate the switch to position to switch on your parking and other operating lamps, The headlamps will not come on.

Rotate the switch to to switch on your headlights. The parking and other operating lights will also come on.

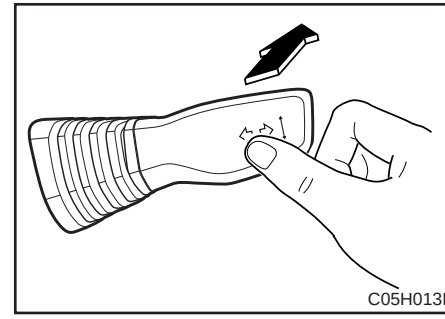
Lamps on reminder

If opening the drivers door with the ignition in the LOCK position and the light switch in the or the position, a warning chime will sound, if the light switch is turned off then on again while the chime is sounding the chime will be cancelled.

High / low beam

Switching between high and low beam requires the low beam lamps to be on. Push the lever toward the front of the vehicle to switch from low beam to high beam and return the lever to the original position for low beam.

The headlamp high beam indicator lamp on the instrument panel illuminates when the headlights are in high beam.


C05H013P

Battery saver

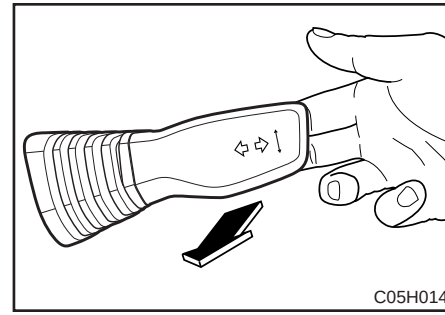
The battery saver is to prevent the battery from being discharged.

When you leave the lamp switch in the position, the lamps will switch off automatically 10 minutes after the ignition switch is turned to the LOCK position.

Note: If the lights are switched on 10 minutes after this feature operated, the battery saver will not function.

Flashing high beam

It is also possible to flash the high beams for signalling purposes by pulling the lever toward the steering wheel (even with the headlamps switched off). The lights remain in high beam as long as the lever is held in this position.


C05H014P

HEADLAMPS and FOG LAMPS cont

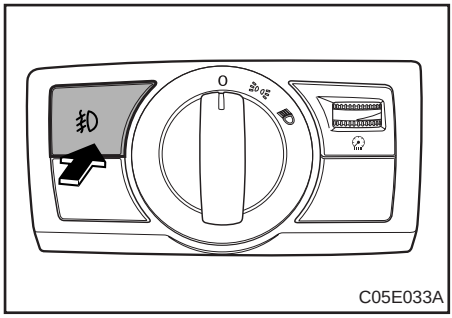
Front fog lamps

The front fog lamps provide extra illumination to the sides of the road ahead and improve visibility in fog or snow conditions.

To switch the front fog lamps on make sure the headlight switch is in the ≡OO≡ or position, then press the button on the left-hand side of the light switch.

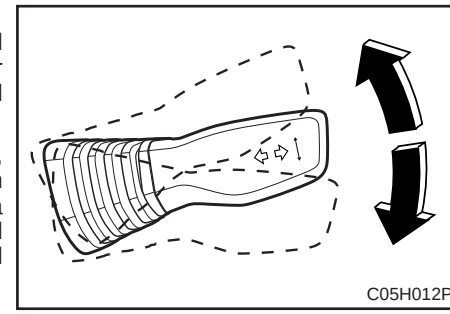
Note: The instrument panel front fog lamp indicator illuminates when the front fog lamps are operating.

To switch the front fog lamps off, press the button on the left-hand side of the light switch again and the fog lamps will switch off.



TURN SIGNALS AND IGNITION SWITCH

Turn signals


C05H012P

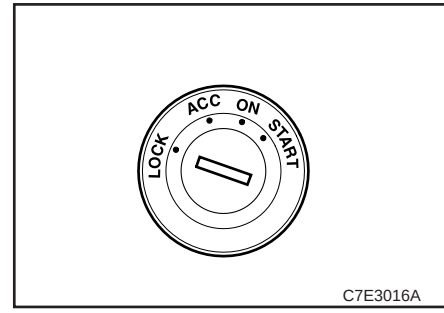
The turn signal lever is on the right-hand side of the steering column. Push the lever up to signal a left turn and down to signal a right turn.

In some turns (such as changing lanes), the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold it. The lever will return to the neutral position when you release it.

An arrow on the instrument panel flashes when the turn signals are in operation.

Note: When the turn signal lever is moved slightly upward or downward and released, the turn signal lamps will flash automatically three times.

Ignition switch



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LOCK: This is the normal parking position for the ignition switch; the accessories and engine are off. The ignition key can only be removed from the ignition switch when it is in this position. When the key is removed, the ignition and steering are locked. To release the steering lock, insert the key into the switch and turn the key to any other position. If you have trouble turning the ignition key to unlock the steering, turn the steering wheel slightly to the right or left while turning the key.

ACC: When the ignition key is in this position, the engine is off, but accessories such as the radio can still operate. To avoid flattening the battery, avoid excessive use of accessories when the engine is not running.

ON: In this position, the engine is ready to start and all electrical systems are active. Do not leave the ignition switch in this position for a prolonged period unless the engine is running, otherwise the battery will discharge.

START: This is the position for starting the engine. Turn the ignition key to the START position momentarily and then release it, as the engine starts automatically. The key automatically returns to the ON position when released.

WARNING:

Do not switch the engine off while the vehicle is moving. Power assisted equipment such as brakes or steering, which are operated by the engine will be ineffective. Never remove the key while the vehicle is moving, as this will lock the steering.

IMMOBILISER AND HAZARD WARNING

Immobiliser

To provide additional security, your vehicle is fitted with a vehicle immobiliser. The engine will not start unless the correct key (correctly programmed) is used.

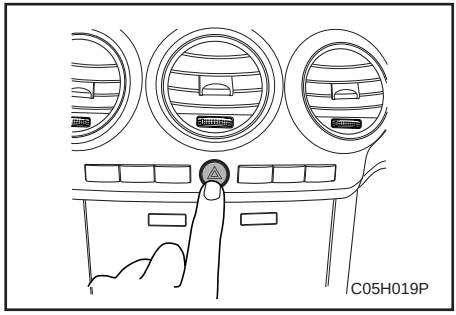
Note: Any additional or replacement keys must be purchased from and programmed by a Holden Dealer.

Hazard warning

Press the switch located below the right centre air vent, to switch the hazard warning flasher on and off. The hazard warning flasher works regardless of the ignition switch position.

When switched on, all turn signals continuously flash.

Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard.

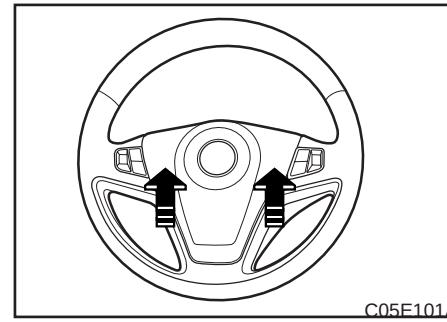


Note: The use of the hazard warning flashers while the vehicle is moving may be illegal in some States.

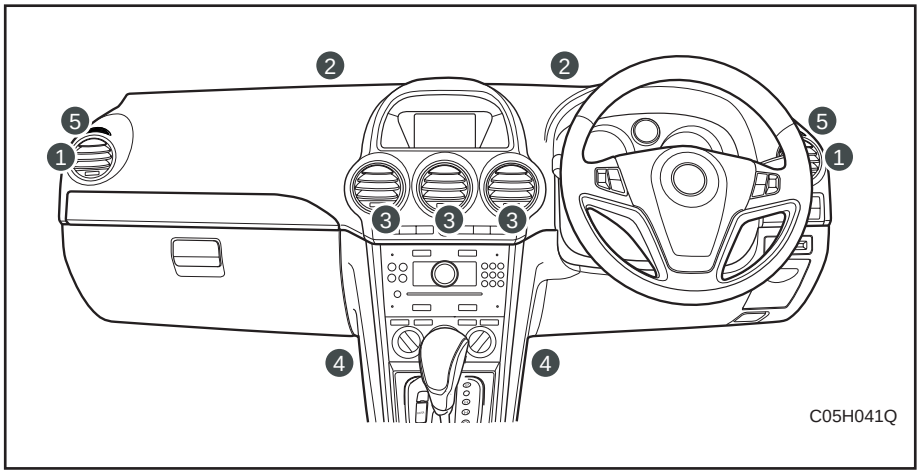
HORN

Horn

To sound the horn, press the horn symbol on either side of the steering wheel centre pad. The horn will sound regardless of ignition switch position.



CLIMATE CONTROL



❶ Side vent

❷ Windscreen demister vent

❸ Centre vent

❹ Floor vent

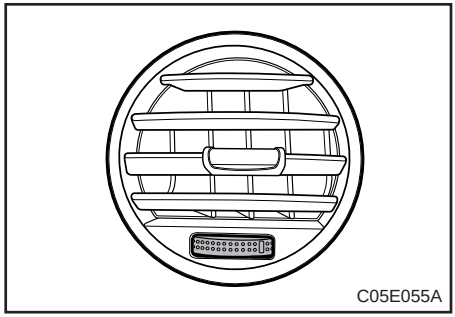
❺ Front door glass demister vent

Air outlets

The direction of air flowing out of the vents can be changed by moving the airflow deflectors up, down, left or right.
Some outlets may be equipped with a shut off wheel.

Centre vents ❸

Rotate the wheel to the right to close the outlet or to the left to open it.



Side vents ❶

Rotate the wheel to the right to close the outlet or to the left to open it.

Windscreen demister vent ❷

These vents are located at the base of the windscreen and are controlled by the air outlet selector.

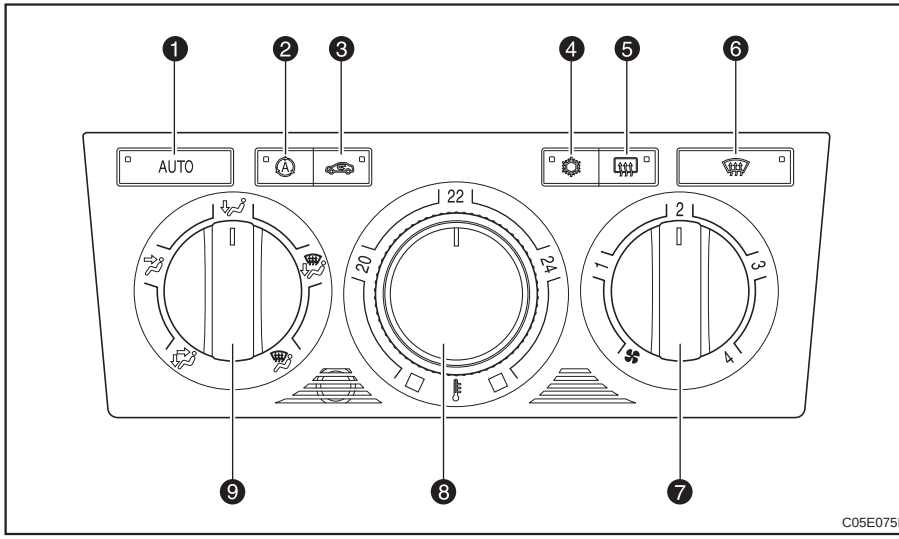
Floor vent ❹

These vents are located under the dashboard and are controlled by the air outlet selector.

Front door glass demister vent ❺

These vents are located above the side vents and are controlled by the air outlet selector.

CLIMATE CONTROL cont.



❶ AUTO mode button
❷ APS mode button
❸ Air recirculation button
❹ Air conditioning button
❺ Rear window demister button
❻ Windscreen demister button
❼ Fan speed selector
❽ Air temperature selector
❾ Air outlet selector

Air temperature selector ❽
This knob controls the temperature. Turn the temperature knob to the red area for warmer air or to the blue area for cooler air.

Air outlet selector ❾
This knob controls the air delivery mode. Turn the knob to direct air flow through the desired outlets.

Fan speed selector ❼
This knob controls the fan speed. Turn the knob to the right to increase fan speed, or to the left to decrease fan speed. There are five fan settings: ✤, **1**, **2**, **3** and **4**.

Fan Off setting ✤
When the Fan Speed Selector is turned anti-clockwise all the way, the air conditioning system switches off. However, if the recirculation switch is turned off, outside air still comes into the vehicle when it is moving.

CLIMATE CONTROL cont.

Air outlet selector

Different vents are selected when the air outlet selector is set in the following positions:

Air flows from the four face level outlets in the instrument panel.

The blending mode directs the airflow through both the instrument panel outlets and the floor outlets.

This mode also directs airflow through the rear floor outlets.

The heater mode directs most of the airflow through the floor outlets, with some air going to the windshield and side window demister vents.

This mode also directs airflow through the rear floor outlets.

This mode divides the air flow equally between the windshield demister outlets and the floor outlets. A small amount of air will also be directed toward the side windows.

This mode also directs airflow through the rear floor outlets.

Air flows from the window demist and windscreen demist outlets, a small amount is also directed to the side vents.

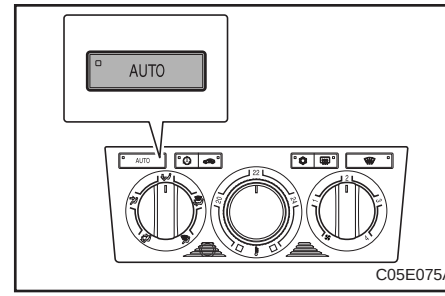
CLIMATE CONTROL cont.

The fully automatic climate control system controls the interior temperature of your vehicle. It achieves the desired temperature when you select the auto mode.

The desired temperature is controlled by an in-car sensor, coolant temperature, sun sensor and the ambient temperature sensor.

Auto button

When the AUTO button is pressed, the interior temperature will be controlled automatically to reach the desired preset temperature. The system will control the air distribution mode, fan speed, air conditioning and recirculation functions automatically.

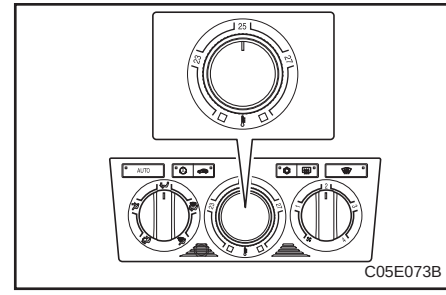


Setting the desired temperature

Rotate the temperature control knob clockwise to increase the temperature or anticlockwise to decrease the temperature until the desired temperature is displayed.

The temperature can be set between 18ºC and 32ºC.

Note: When the desired temperature is set at either HI or LO the fan operates continuously at the highest speed.



Heating

Use the maximum heating mode for quick heating of the passenger compartment. Do not use maximum heating for lengthy periods, as the interior air may become stale and the windows may fog. To clear the windows switch off the recirculation mode to allow fresh air into the passenger compartment.

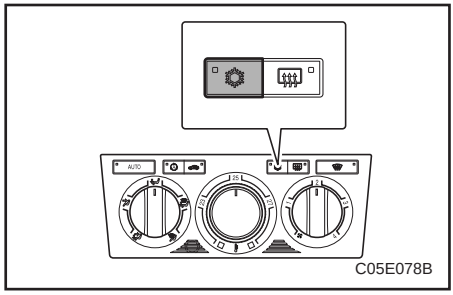
For maximum heating:

1. Press recirculation button (indicator illuminates).
2. Turn air distribution knob to or .
3. Turn the temperature control knob all the way to the maximum red area.
4. Turn the fan control knob to the maximum speed.

Note: When using the method above AUTO mode is cancelled.

CLIMATE CONTROL cont.

Air conditioning button



Press this button to switch the air conditioning on. The engine must be running for the feature to work. Set the fan position to 1, 2, 3, or 4 to begin air circulation. An indicator light illuminates on the button when the air conditioning is in use.

Note: The fan must be switched on for the air conditioning to work.

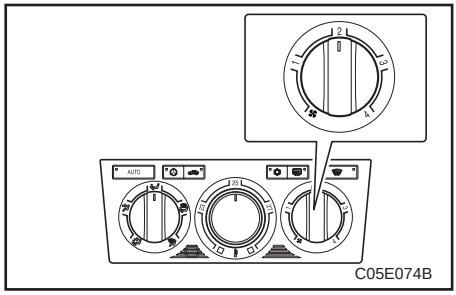
Even when the air conditioning system is on, your vehicle will produce warm air if the temperature control knob is set to warm.

Press the air conditioning switch again to switch the air conditioning off.

You may notice water dripping under the vehicle sometimes after driving with air conditioning on. This is normal because your air conditioning system removes moisture from the air inside the cabin.

Because the compressor of the air conditioning system shares the engine power, you may notice a slight change in engine power and performance when the compressor operates.

Fan speed selector

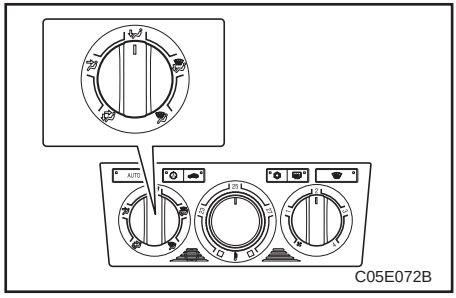


Use the fan speed selector to control the fan speed.

Note:

- Rotating the fan control knob to any position when AUTO mode is selected will cancel auto mode.
- Rotating the control knob to ✻ position will switch the airconditioning off.

Air distribution mode change



If the MODE button is rotated, AUTO mode is cancelled and the air distribution mode is changed in the following sequence:

FRONT → BI-LEVEL →

FLOOR → FLOOR/DEMIST →

DEMIST

Refer to, Air outlet selector, previously in this section.

CLIMATE CONTROL cont.

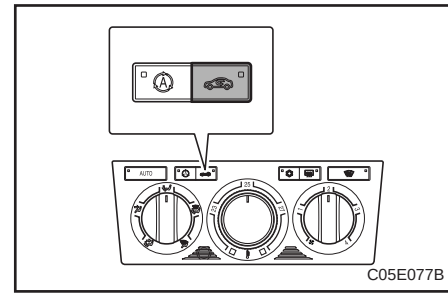
Recirculation mode

Press the recirculation button to recirculate the air in your vehicle. This is useful for keeping dust and odours out or when quick heating or cooling is desired.

The indicator light in the button illuminates.

Press the button again to switch off the recirculation feature and allow outside air into your vehicle.

Using the recirculation setting for an extended period of time may cause the windows to fog up. If this happens, switch the recirculation feature off.

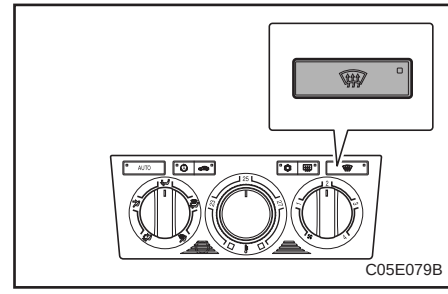


C05E077B

Windscreen Demister

Press the demister button to demist the windscreen. The A/C and outside air modes are automatically switched on. Adjust the fan speed using the fan speed control knob.

This mode can be cancelled by pressing the demist button again, air distribution mode button or the AUTO button.



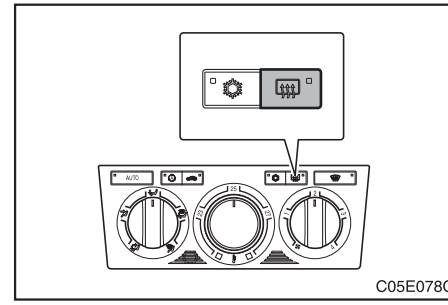
C05E079B

Rear window demister

The ignition must be switched on for this feature to work.

Press this button to demist the rear window. To switch it off press the button again. Otherwise, it will go off by itself after ten minutes. To switch back on, just press the button again.

The indicator lamp in the button illuminates when the system is on.



C05E078C

Note: Do not use the rear window demister under the following conditions:

- Engine is not running.
- You are just starting your vehicle.
- There is a buildup of snow or ice on the rear window.

Operating the rear window demister under these conditions could drain the battery.

WARNING:

Less than clear vision for the driver can lead to an accident resulting in personal injury and damage to your vehicle or other property.

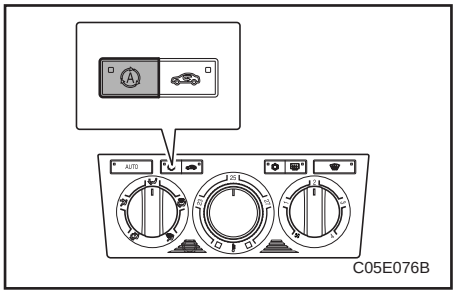
CLIMATE CONTROL cont.

APS

The air purity sensor automatically draws outside air into the passenger compartment or converts to recirculation mode to prevent exhaust gas from the outside contaminating air within the passenger compartment.

Press the Ⓐ button to activate the APS mode, the indicator light on the button illuminates.

To switch off the APS mode, press the Ⓐ button again, the indicator light goes off to confirm the APS is inactive.



Note: The windows may fog if the APS mode is used for extended periods, if this happens switch off the APS mode and switch to the outside air mode.

Passenger compartment pollen filter

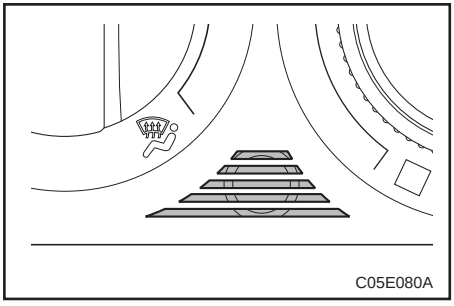
A passenger compartment pollen filter is fitted to filter outside air entering the vehicle. The filter removes contaminants such as pollen and dust from the air entering the vehicle.

Proper maintenance of the passenger compartment pollen filter is required. Refer to the Servicing Handbook.

Temperature sensor

Temperature levels sampled from the interior of the vehicle are used to establish ventilation system requirements, when operating in AUTO mode.

Do not cover the sensor or the climate control will receive the wrong information.

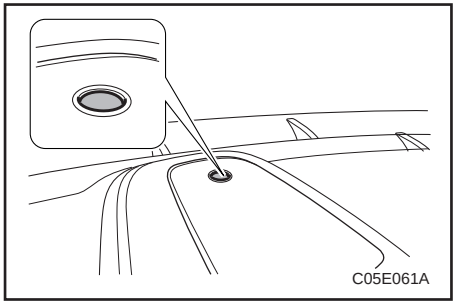


Sunlight sensor

The sunlight sensor is located in front of the windscreen demister vents.

This sensor detects sunlight when operating in AUTO mode.

Do not cover the sensor or the climate control will receive the wrong information.



CLIMATE CONTROL cont.

Operating Tips

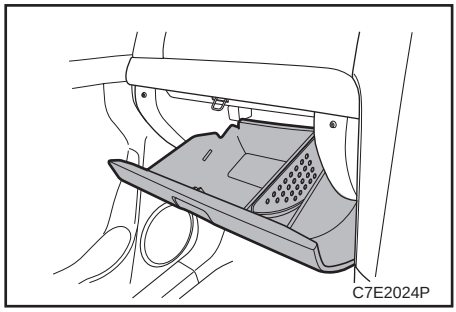
- To conserve fuel, switch off the air conditioner when it is not required.
- Keep the area under the front seat clear of objects to help air circulate through the vehicle.
- In hot weather before using the air conditioning system, open the windows for a few minutes to permit hot air to escape if the vehicle has been parked in direct sunlight.
- For maximum cooling, select the ventilation mode and the highest fan speed. Make sure the air conditioning is switched on. Rotate the temperature control knob to select the coolest temperature and activate the recirculation mode.
- Switch on the air conditioning for a few minutes at least once a week, even in the winter or when the air conditioning system is not being used regularly. This maintains proper lubrication of the compressor and seals, prolonging the service life of the system.
- Driving in stop-and-go traffic may reduce the effectiveness of the air conditioning system.
- To quickly demist the front windshield, use the demister mode, set the temperature to warm, and set the fan at the highest speed.
- For improved demisting of the windows on rainy days or in high humidity, switch the air conditioning on.
- Windshield demister mode will operate with the air conditioner on or off.
- Do not use the heating / demisting mode or the demisting mode in extremely humid weather when the temperature control is set to cold.
- If occupants are smoking, it is recommended that recirculation is not used.
- When following another vehicle on dusty roads, or to prevent exhaust fumes or odours entering your vehicle, select recirculation and close the windows.
- When driving on unsealed roads but where the dust is not airborne, select fresh air (with the windows closed) and set the fan preferably on a high speed so that positive air pressure in the vehicle will prevent any dust entry.

GLOVEBOX

Glovebox

The glovebox is located on the passenger side of the instrument panel.

The glovebox can be opened by pulling the handle. Push the lid shut to close the glovebox.

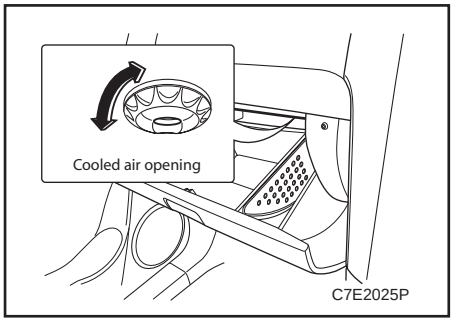


Glovebox cooling

The glovebox is air conditioned to keep snacks fresh while you are travelling. Use the adjustment wheel inside the glove box to open or close the cooled air vent.

Cool air is sent into the glovebox through a vent when the air conditioning is switched on.

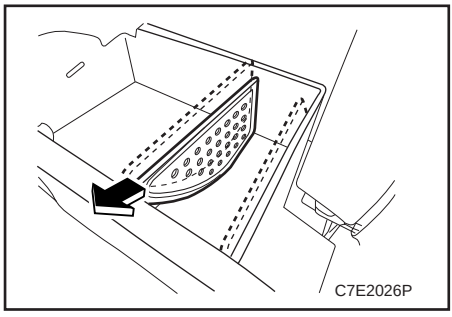
If glovebox cooling is not required, close the vent by turning the adjustment wheel counterclockwise.



Note: In cold weather, cold air will flow through the glove box vent when the recirculation feature is switched off, allowing outside air to flow in. If glove box cooling is not required, close the vent.

Inner partition

To store larger items, remove the inner partition and store it in the right side groove of the glove box.

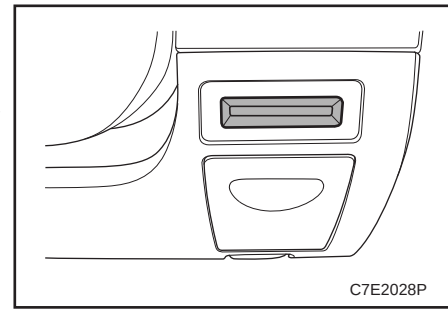


STORAGE COMPARTMENTS

Card holder

The card holder is located on the right-hand side of the instrument panel.

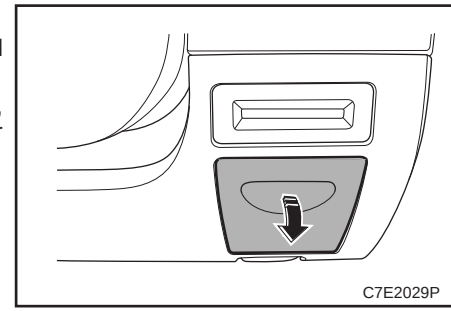
The card holder can be used by inserting a card into the slot.



Coin storage

The coin storage is located on the right-hand side of the instrument panel.

To open the coin storage compartment, pull the handle on the compartment door toward you.



Notes

CHAPTER 2

Locks

Page

2-2 Keys and keyless entry

2-5 Manual lock operation

2-5 Rear tailgate lock

2-7 Child proof lock

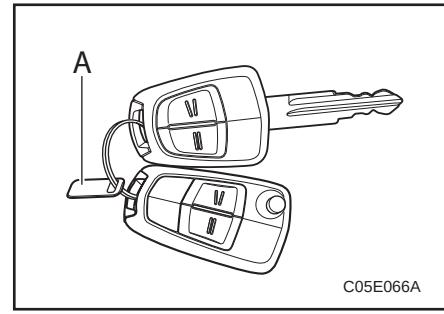
2-7 Bonnet release

❇ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

KEYS AND KEYLESS ENTRY

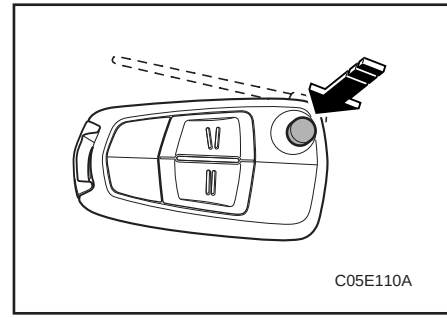
Keys

The code number for your keys is stamped on the key plate **(A) ,** which is attached to the key ring. Record the key number, remove the key plate and keep the number and the key plate in a safe place – not in the vehicle.



Folding the key

Press the button to extend or retract the key blade. When the blade retracts it clicks into place within the plastic key housing.



To protect your car from theft, an electronic immobiliser system has been installed in your vehicle, the engine is automatically immobilised when the key has been turned to the LOCK position then removed from the ignition switch.

Only keys with the correct electronic code can be used to start the car. Even if a key has the same profile it will not start the engine if the electronic code is incorrect.

In the event of the original keys being lost, any additional or replacement keys must be purchased and programmed by a Holden Dealer, using your key code number.

KEYS AND KEYLESS ENTRY cont.

Keyless entry using remote control

The range of the remote control unit should be approximately 6 metres, this may be reduced due to shadowing and reflection of the radio waves. To operate the remote control unit, direct it at the vehicle and press the required button.

For your convenience, we recommend to operate the central locking system always using the remote control unit.

Treat the remote control unit with care; it should be protected against moisture and should not be operated unnecessarily.

To lock the vehicle:

Press the button on the remote control unit. The vehicle hazard lamps flash once, all doors and the tailgate lock.

To deadlock the vehicle:

Press the button a second time, the vehicle hazard lamps flash once and the doors deadlock.

To unlock the vehicle:

Press the button on the remote control unit, the vehicle hazard lamps flash twice, the driver's door unlocks and the instrument panel lamps illuminate for approximately 30 seconds.

To unlock remaining doors:

Press the button a second time, the remaining doors unlock and the instrument panel lamps illuminate for approximately 30 seconds.

Note: Deadlocking will lock all doors and prevent them from being unlocked from inside the vehicle.

KEYS AND KEYLESS ENTRY cont.

Note 1: If the remote control unit can not unlock the central locking system, this may be due to the following reasons:

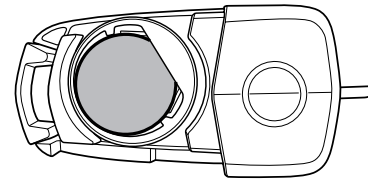
- The voltage of the remote control battery is too low. Change the battery in the remote control unit.
- You may be too far from your vehicle.
- Interference from high-power radio waves from other sources.

Note 2: If the doors have been unlocked using the remote control unit and the doors have not been opened within 30 seconds; the doors will automatically relock.

Replacing the battery in the remote control transmitter

Replace the battery as soon as the range of the remote control consistently starts to reduce, as follows:

1. Remove the screw from the back cover.
2. Remove the back cover.
3. Remove the battery and replace it with the new one, making sure the positive (+) side of the battery is facing downward.


C05E128A

Note: Use a **CR1620** (or equivalent) replacement battery.

4. Reassemble the transmitter.
5. Test the operation of the transmitter with your vehicle.

Matching the remote control transmitter

Matching transmitters to your vehicle may be necessary if you lose or replace a transmitter. Even if only one transmitter is being replaced, you must rematch all of your transmitters at the same time. Up to four transmitters can be matched to your vehicle. See your Holden Dealer to purchase a new transmitter and to have transmitters matched to your vehicle.

WARNING:

The remote control unit is built up of precision electronic parts. To help avoid transmitter trouble:

- **Do not leave the remote control unit in direct sunlight or on the instrument panel.**
- **Do not treat the remote control unit carelessly.**
- **Do not allow the remote control unit to get wet.**

Note: If the system is overloaded as a result of repeated operation at short intervals, the power supply may cut off for a short amount of time.

MANUAL LOCK OPERATION

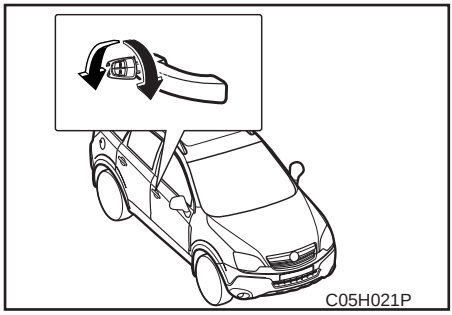
Manual locking system

To lock using key:

Insert the key in the driver's door lock. Turn the key toward the rear of the vehicle. Allow the key to return to its vertical position for removal.

To unlock using key:

Insert the key in the driver's door lock. Turn the key toward the front of the vehicle. Allow the key to return to its vertical position for removal.



Rear tailgate lock

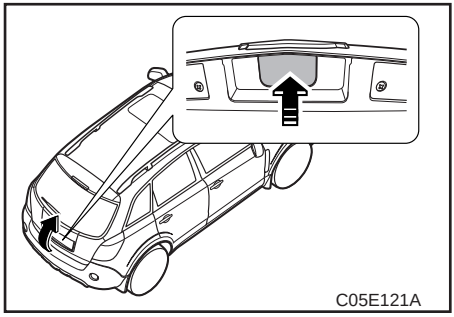
To lock:

To close the tailgate, push it down until it latches securely. From the outside, the tailgate can be locked with the remote control.

To unlock:

To open the tailgate, unlock by pressing the door lock switch on the driver's door trim or the unlock button on the remote control.

Push the button above the number plate and lift the tailgate.



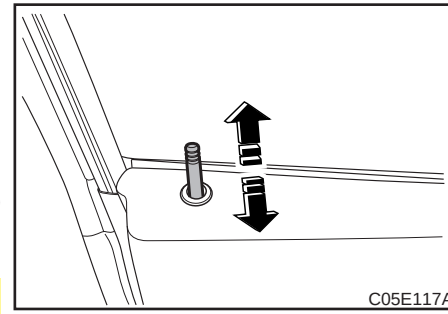
WARNING

It can be very dangerous to drive with the tailgate open. Carbon monoxide (CO) gas can enter into the vehicle. You can not see or smell CO. It can cause unconsciousness and even death.

If you must drive with the tailgate open, make sure all other windows are closed and switch the fan on to the highest speed using any setting that brings in outside air. Doing this will force outside air into the vehicle.

MANUAL LOCK OPERATION cont.

Door lock buttons



To lock:
To lock any door from the inside, push down on the door lock button.

To unlock:

To unlock any door from the inside, pull up on the door lock button.

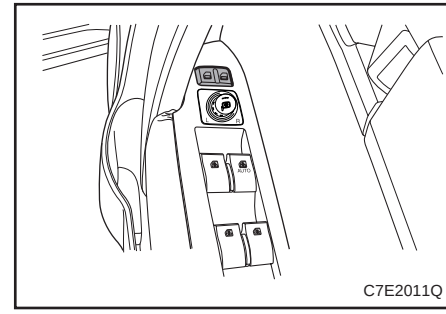
WARNING:

Before driving, ensure the doors are closed and locked, especially when young children are in the vehicle.

Door lock switches

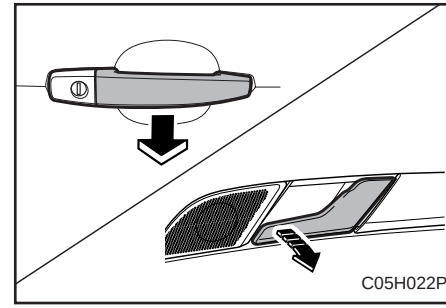
The doors can be locked or unlocked with the door lock switches, located on the driver's door trim pad.

Press the left side of the switch to lock the doors, press the right side of the switch to unlock the doors.



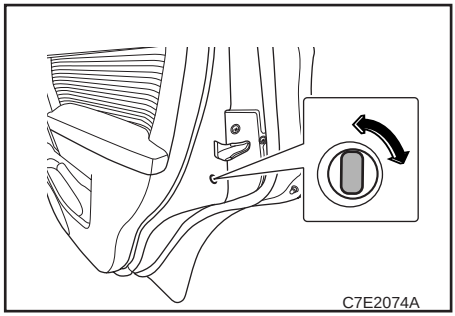
Opening doors

The driver's door and the front passenger's door can be opened by pulling the door handle from the inside, even if the doors are locked with the door lock button.



MANUAL LOCK OPERATION cont.

Child proof lock



The rear doors on the vehicle can be locked to prevent children from opening them from the inside.

To engage the child lock, open the rear door and locate the child proof lock on the doors rear edge. Move the lever on each rear door to the locked position to lock the doors.

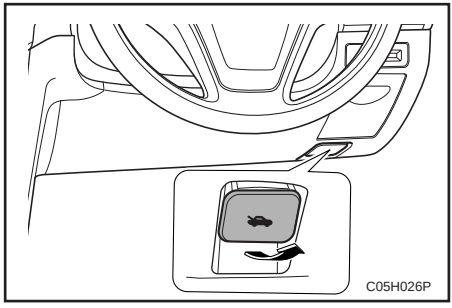
The door can not be opened from inside, regardless of the lock button position on the driver's door, however the door can be opened from the outside.

To disengage the child lock, open the rear door and push the lever in the opposite direction. Close the doors.

WARNING:

For safety, you should check if the lock is operating correctly by attempting to open the door from the inside after the child lock has been engaged.

Bonnet release



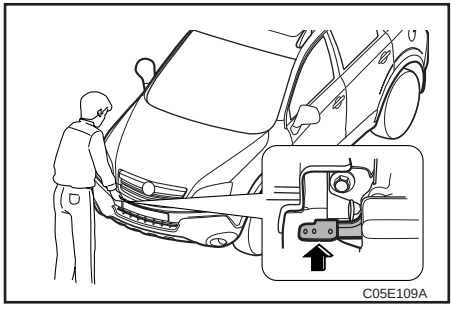
To open the bonnet, pull the release handle located at the lower right side of the dashboard.

To release the bonnet, pull the lever toward you. The bonnet is prevented from opening fully by a safety catch.

To open the bonnet completely, reach in under the centre of the bonnet opening and move the safety catch upward, raise the bonnet gently. Two gas struts will hold the bonnet open.

To close, lower the bonnet gradually until it is about 30cm from closed, and then push it down to close fully.

Pull on the front edge of the bonnet to ensure it is latched securely before driving the vehicle.



CHAPTER 3

Know your vehicle

Page	
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3-5	Head restraint adjustment
3-6	Seat belts
3-10	Which type of child restraint for your child?
3-11	Child restraints
3-13	Mirrors
3-14	Tilt steering and antenna
3-15	Power windows
3-16	Interior lamps
3-18	Accessory power outlets
3-19	Sun visors and assist grips
3-20	Storage compartments
3-23	Roof rails

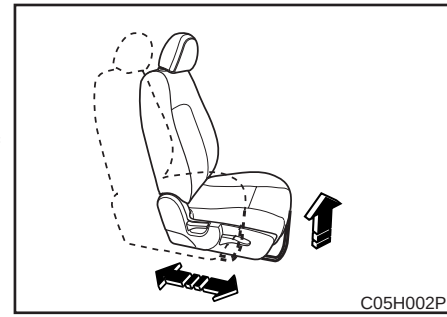
❇ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

SEAT ADJUSTMENT

Manual front seats

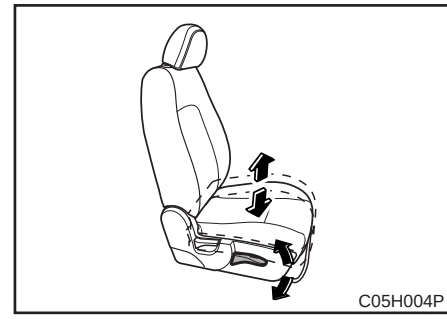
Seat slide adjustment

Lift the lever to unlatch the front seat. Slide the seat as required. Release the lever. Try to move the seat back and forth to check if the catch is fully engaged.



Driver's seat height adjustment

To raise the driver's seat cushion, move the lever upward repeatedly until the seat is at the desired height. To lower the seat cushion, move the lever downward repeatedly until the seat is at the desired height.

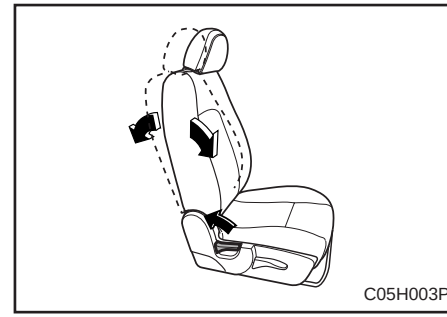


Seat reclining adjustment

To tilt the seat forward or backward, lift the lever on the outside of the seat cushion until the seatback is adjusted to the desired position.

WARNING:

To avoid reducing the effectiveness of seat belts, the seat back rests should only be semi-reclined when the vehicle is moving.

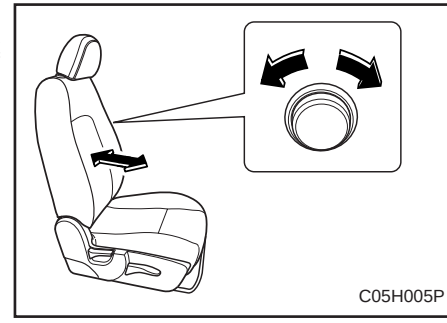


Driver's seat lumbar adjustment

To increase or decrease the driver's seat lumbar support, turn the knob on the inside of the seatback clockwise or counterclockwise until the lumbar is adjusted to the desired position.

WARNING:

Do not adjust the driver's seat when the vehicle is moving, as the seat could move suddenly, causing the driver to lose control.

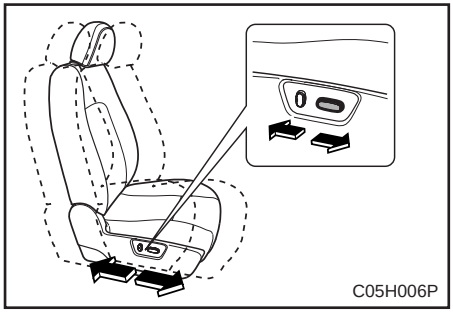


SEAT ADJUSTMENT cont.

Driver's power seat ✻

Seat slide adjustment

To move the seat forward or backward, move and hold the switch in the forward or rear position. When the seat reaches the desired position, release the switch.

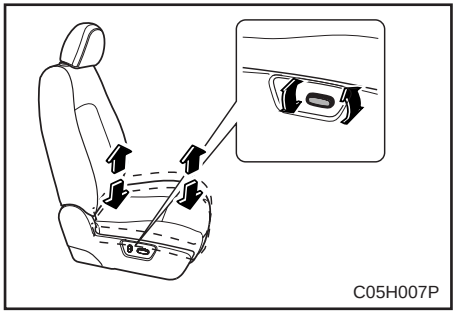

C05H006P

Seat height adjustment

To adjust the height of the front part of the seat cushion, push the front of the switch up or down.

To adjust the height of the rear part of the seat cushion, push the rear of the switch up or down.

To adjust the height of the entire seat cushion, push both the front and rear of the switch up or down.

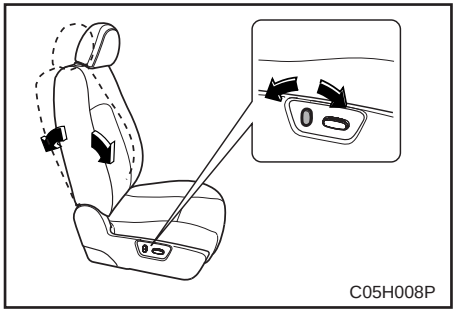

C05H007P

Seat reclining adjustment

To tilt the seatback forward or backward, move and hold the upper part of the switch forward or backward. When the seatback reaches the desired position, release the switch.

WARNING:

To avoid reducing the effectiveness of seat belts, the seat back rests should only be semi-reclined when the vehicle is moving.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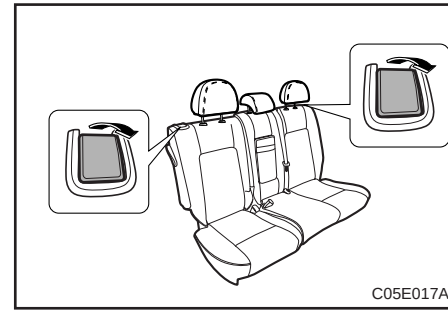
SEAT ADJUSTMENT cont.

Rear seats

Seat reclining

The rear seats can be partially reclined.

To tilt the seatbacks, lift the lever on top of the rear seatback until the seatback is adjusted to the desired position.



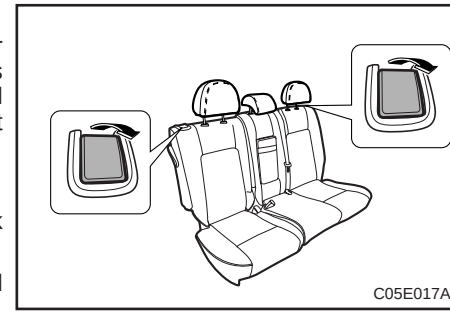
Seat folding

The seatbacks can be folded down for additional cargo space. The seatbacks can be folded down individually.Ensure all three seat belts are unbuckled and the front seatbacks are not reclined.

1. Push the head restraints fully down.
2. Lift the lever on top of the rear seatback and fold the seatback forward.

To return the rear seats to their original position, use the following procedure:

1. Guide the rear seat cushion back to the original position.
2. Ensure it is securely latched by pulling it back and forth.

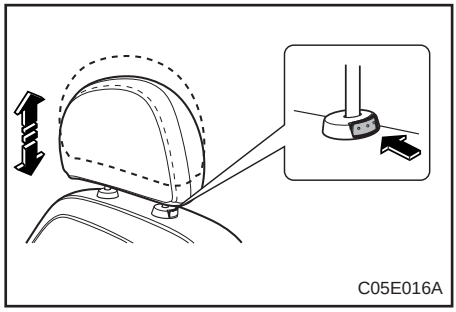


HEAD RESTRAINT ADJUSTMENT

Adjusting the height

To adjust the height of the head restraint, pull up or push down whilst pressing the lock button in.

Note: The upper edge of the head restraint should be approximately at eye level, and not at neck level.



WARNING:

- **Do not drive the vehicle with the head restraints removed, since it would increase the risk of a neck injury in the event of an accident.**
- **Do not attempt to adjust the driver's head restraint while the vehicle is in motion. This could cause a loss of control of the vehicle.**
- **The head restraint safety feature is not intended as a headrest. It is solely for the reduction of whiplash neck movement in an accident involving your vehicle.**

SEAT BELTS

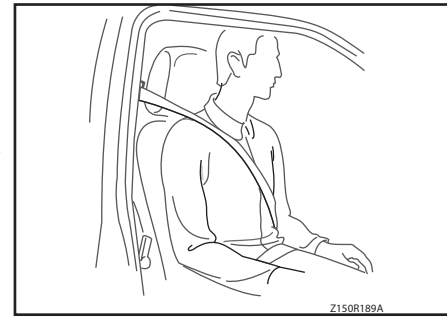
Front seat belts

To fasten the retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a click. After fastening, settle the seat belt by running your hand under the seat belt starting at the hip, move your hand across to the buckle then up under the sash. Any extra seat belt length will retract automatically.

The lap section should be worn as low as possible across your hips, not on your waist. Ensure the sash and lap sections of the seat belt are free from twists and fit firmly.

The emergency-locking retractor allows you to move freely while the vehicle is travelling normally. The retractor locks the seat belt immediately on sudden braking, impact with a solid object or any quick movement by the wearer.

To release the seat belt, press the release button on the buckle and allow the seat belt to retract. Ensure that it fully retracts without twisting or turning.

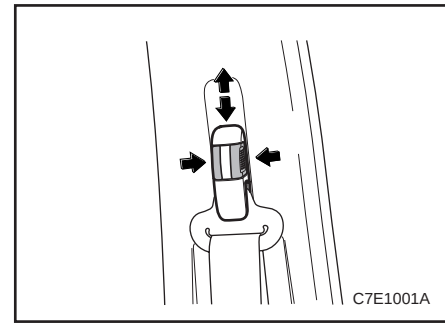


Front seat belt height adjustment

WARNING:

Do not attempt to adjust the seat belt height while driving, because it could cause loss of control of the vehicle.

The seat belt is anchored to the vehicle near your shoulder, the position of the front seat belt anchor can be adjusted to accommodate the height of the wearer.



1. Squeeze the release buttons to move the adjuster up or down to the desired height.
2. Lock the safety belt anchor in position.
3. To make sure it is locked in place, try to move the height adjuster without pressing the release button.

Adjust the height so the seat belt passes over the wearer's shoulder and rests against the shoulder. It must not pass over the neck or upper arm. Short people should select a low seat belt guide position and tall people a higher one.

SEAT BELTS cont.

Rear seat belts

To put on the seat belt, pull the shoulder portion of the seat belt down until the metal tongue reaches the buckle. Press the metal tongue into the buckle until it clicks into position.

To release the seat belt, press the release button on the buckle.

WARNING:

The tongue must engage and lock inside the buckle for the seat belt to function properly.

SEAT BELTS cont.

Seat belt pretensioners

The front seat belt system incorporates seat belt pretensioners. Seat belt pretensioners are part of the Supplemental Restraint System (SRS) and operate in conjunction with airbags. In the event of a severe frontal collision the belt buckles are pulled downward, tightening both the diagonal and lap sections of the seat belt.

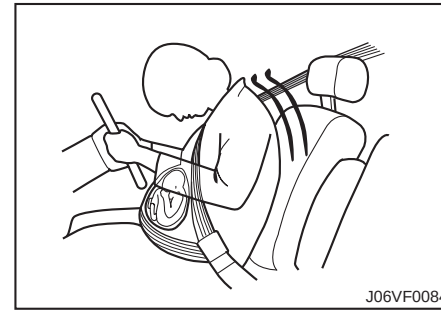
If the belt pretensioners have been activated, the SRS warning lamp on the instrument panel will not go out after the usual few seconds. This is designed to remind you the pretensioner system has been used and therefore needs to be replaced by your Holden Dealer. The seat belts would remain operational, apart from this safety feature.

If the SRS light comes on at any other time, or if the SRS warning lamp illuminates on the instrument panel, see your Holden Dealer immediately to have the system checked, refer to Chapter 1, Dashboard, for further information about warning lamps and reminder indicators.

The driver and all passengers should be properly restrained at all times with the seat belts provided in the vehicle. Failure to do so could increase the risk of injury and / or the severity of injury in accidents.

Seat belt use during pregnancy

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear seat belts. A pregnant woman should wear a lap / shoulder belt, and the lap portion should be worn as low as possible throughout the pregnancy.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SEAT BELTS cont.

Maintenance of seat belts

Check the seat belts regularly. Replace the seat belts if they become frayed or damaged. The buckle and retractors mechanism operation should also be checked. Your Holden Dealer will regularly do these things as part of the scheduled maintenance plan, refer to the Service Handbook.

The seat belts must be replaced if they have been in use during a severe impact, even if there is no obvious damage.

Clean the seat belts only with a solution of mild soap and lukewarm water. Never use bleach.

Child restraints

If you are travelling with children in the vehicle, child restraints are required. Refer to 'Which type of child restraint for your child?' In this Chapter.

WARNING:

- **Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis, or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.**
- **Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.**
- **Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.**
- **It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.**
- **Seat belts should not be worn with straps twisted.**
- **Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.**
- **No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.**

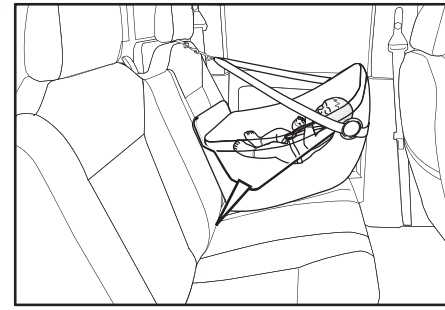
WHICH TYPE OF CHILD RESTRAINT FOR YOUR CHILD?

Children should be restrained at all times and fitted with a child restraint appropriate to their size when travelling in a vehicle. The following outlines guidelines about selecting the appropriate restraint.

Infants

Rearward facing infant capsule	
WEIGHT	HEIGHT
Less than 9kg (1)	Less than 70cm (1)

Designed so that in the event of a collision, impact forces will be evenly spread over the baby's back, with minimal jarring to the vulnerable head and neck area.

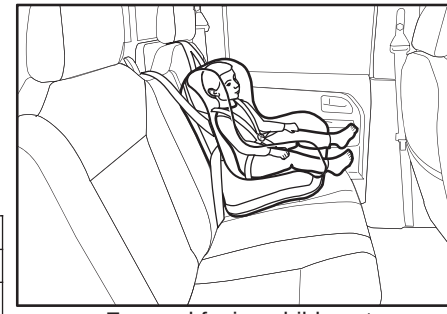


Rearward facing infant capsule

Young children

Forward facing child seat
WEIGHT
8 to 18kg (1)

For use when the child is able to sit and easily hold his or her head upright. It is also possible to purchase convertible seats which can be used as a rearward facing infant restraint or converted to a forward facing child seat.



Forward facing child seat

Booster seat with lap / sash seat belt
WEIGHT
14-26 kg (1)

(1) According to AS/NZ 1754:2004

When children outgrow a typical forward-facing child seat but they are still too small for lap / sash seat belts. A booster seat raises the child so the knees bend comfortably, the lap / sash seat belt is correctly positioned and the child can see out the window. A rigid booster seat with a back, side wings and sash guide gives the best protection. In assessing the range of children who would benefit from booster seats, height is a better indicator than age or weight.

Booster seat with lap / sash seat belt

Older children

A child should use a normal lap / sash seat belt only when:

- he / she can sit against the back of the rear seat with knees bent comfortably at the edge of the seat,
- lap belt rests low and snug across the hips – not across the stomach,
- sash belt is centred on shoulder and chest,
- he / she is able to stay seated like this for the entire trip.

Adult lap / sash seat belt

CHILD RESTRAINTS

WARNING – EXTREME HAZARD:

- **Do not use a rearward facing child restraint on a seat protected by an air bag in front of it.**

  The child could be seriously injured if the air bag inflates, as the child's head would be very close to the inflating air bag.
- **Never install a child restraint in the front seat of a vehicle fitted with Side Impact Air Bags (SIAB). Remember that it is safer for children to be seated in the rear seats.**
- **If a child can not see out of the window, do not raise the child by means of an ordinary cushion. The cushion would not stay in place in the event of a crash, and the child would slip out of the straps and become entangled. Ensure the seat belt fits firmly around the child restraint.**
- **Children should be restrained at all times when travelling in a vehicle.**

WARNING:

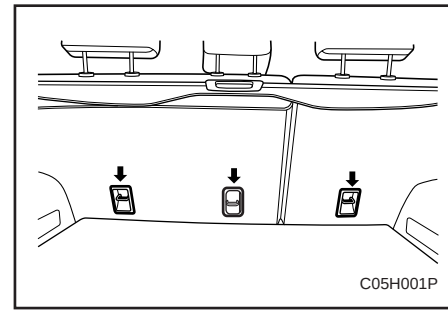
- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.**
- **Only child restraints that have clips to attach to the vehicle's anchorage fitting (as shown in the following illustrations) are to be used. Earlier types of child restraints may not attach securely to this type of anchor.**
- **Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.**
- **Where legally allowable, you may install a forward-facing child restraint in the front passenger's seat (without side impact airbags), but always move this seat as far back as it will go.**
- **Remember, it is safer for children to be seated in the rear seats.**

CHILD RESTRAINTS cont.

Anchor points

The tether anchor brackets are installed on the rear of the back seats as shown.

Note: The anchor brackets are installed in three positions.



Attaching the child restraint

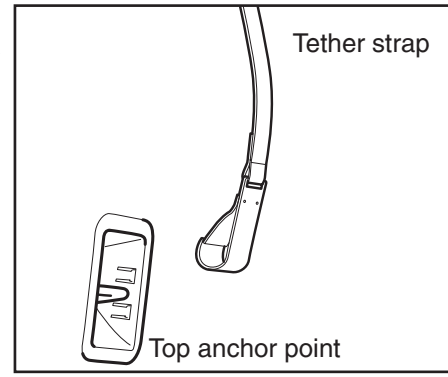
Place the child restraint on the rear seat and attach it to the anchors following the instructions supplied with the child restraint.

Attach the clip on the child restraint tether strap to the tether anchor, ensuring there are no twists in the tether strap.

Note:

- If the position you are using has an adjustable head restraint and you are using a dual tether, route the tether around either side of the head restraint.
- If you are using a single tether, raise the head restraint and route the tether under the head restraint between the two mounting posts.

Tighten the tether straps according to the instructions supplied with the child restraint.



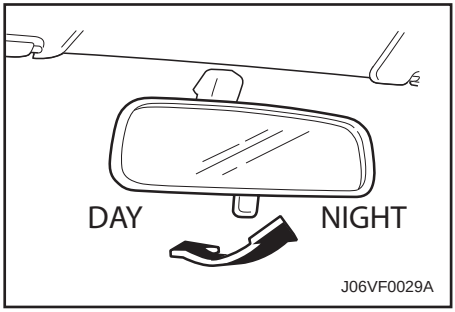
MIRRORS

Interior rear view mirror

To adjust the rear view mirror, move the mirror right or left, up or down to gain the required angle.

The anti-glare lever on the lower edge of the mirror enables the reflector to be used during night driving. This reduces the glare at night, from the following vehicles headlights.

During normal daylight operation, the lever should be set forward. To reduce glare at night, move the lever toward you.



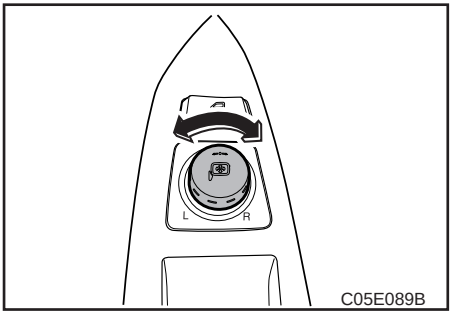
Exterior electric rear view mirrors

The adjustment control for the electric mirrors are located on the driver's side door trim and is operational when the ignition switch is turned to the ON position or ACC (accessories).

Rotate the selector switch to the left to move the left mirror, or to the right to move the right mirror. Rotating the selector switch to the middle will disengage movement.

Push the knob in the direction you want to move the mirror up, down, left or right. It is not advisable to adjust the mirrors while driving.

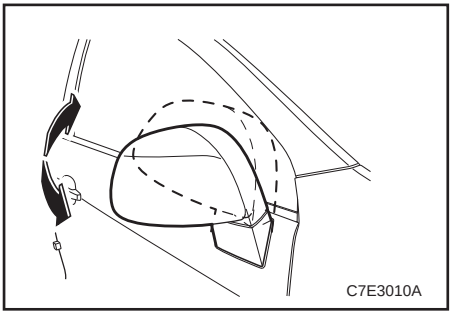
Note: Moving the glass of the mirrors forcibly by hand can damage the electric mirror drive system.



Folding the exterior mirrors

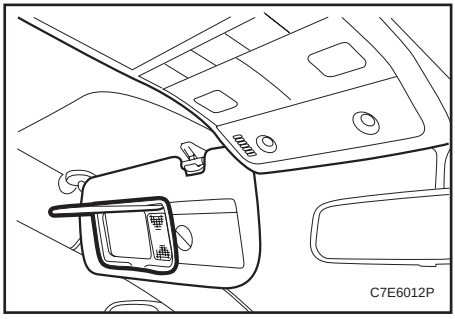
When the vehicle is parked, the exterior mirrors may be folded flat against the sides of the vehicle by pushing the mirrors backward.

WARNING
The exterior mirrors are convex shaped, to provide a wider view. Objects seen in these mirrors are closer than they appear.



Vanity mirrors

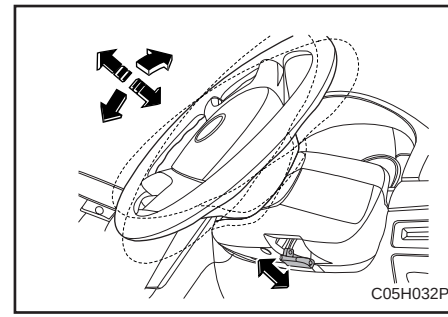
The vanity mirrors are located on the rear side of the sunvisors, and include a ticket holder. When opening the cover of the vanity mirrors the vanity lamp ✻ illuminates.



TILT STEERING AND ANTENNA

Tilt and telescopic steering

The tilt/telescopic steering lever is located on the underside of the steering column. To adjust the height or the reach of the steering wheel, push the lever downward, this unlocks the steering column. Move the steering wheel to the desired height and reach, then pull the lever upward to lock the steering column. Try moving the steering wheel up and down to ensure it is securely locked into position.



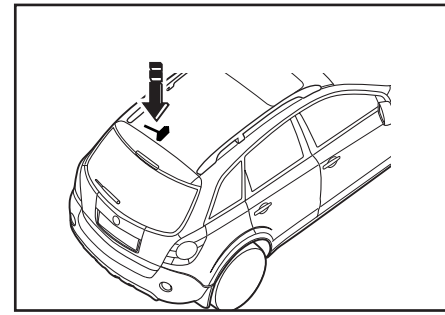
WARNING:

As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.

Radio antenna

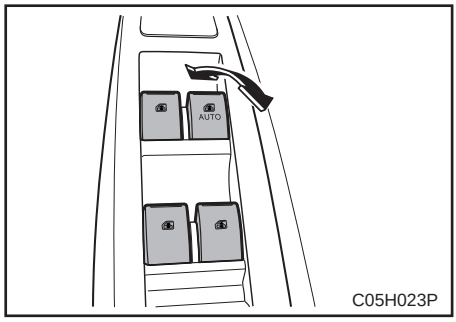
The antenna is located in the centre of the roof above the tailgate opening.

Avoid damage to the antenna when loading the roof rails or when washing the vehicle, this can cause interference with radio reception.



POWER WINDOWS

Power windows



The main switches for the power windows are located on the driver's door armrest. The front switches are for the front windows and the rear switches are for the rear windows.

Individual switches are located on the front passenger door and on the rear doors.

The switches for the power windows are operational when the ignition switch is in the ON or ACC position.

Driver's window auto function

The driver's window has an auto down two stage function.

To lower the window, press down firmly, then release the switch. The window will automatically fully open. To stop the window while it is opening, press the switch again.

To raise the window, pull up and hold the switch. To stop the window, release the switch.

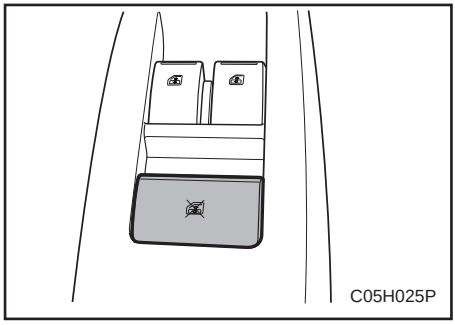
Passenger windows

To open a passenger's window, push down on the switch and hold it down until the window reaches the desired position then release.

To close a window, pull back on the switch until the window reaches the desired position then release.

Note: The rear windows do not open fully.

Lock switch



The lock switch for the power windows is located on the driver's door armrest.
When the lock switch is in the ON position the passengers are not able to operate their windows from the window switch fitted to their door.
Pressing it unlocks the passenger's power windows and allows operation from the individual window switches.
Note: After the ignition key has been turned to the LOCK position or removed from the ignition switch, the windows can be operated for up to 10 minutes or until the driver's door is opened.

WARNING:

- **To assure the safety of children and others, ensure that all passengers have their hands, etc. clear of the windows.**
- **Remove the key when leaving the vehicle, to avoid unintentional window operation by children.**
- **Ensure the lock switch has been set to the activated position when children are in the vehicle.**

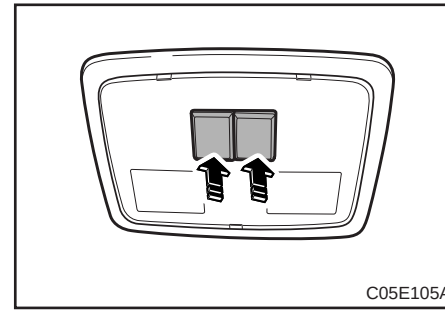
INTERIOR LAMPS

Centre interior lamp

When either interior lamp buttons are pressed, the left-hand or right-hand lamp will illuminate and stay on until the button is pressed again. The centre and rear interior lamps illuminate when a door or the tailgate is opened.

If a door or the tailgate stays open, the interior lamps stays on for approximately 60 seconds.

When all doors and the tailgate are closed, the interior lamps gradually dim and switch off after approximately 10 seconds.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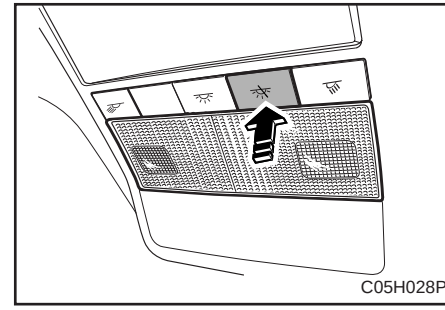
Interior lamps off

The front reading lamps, centre interior lamps, luggage area lamps and ignition switch lamp can be switched off by pressing the button located on the switch panel between the sunvisors.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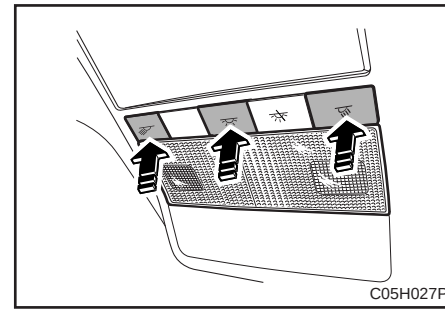
Map lamps

The map lamps are located on the switch panel between the sunvisors.

Press one of the two outside buttons (as shown) to illuminate the corresponding front map lamp, press the button again to switch off the map lamp. When you press the centre button both reading lamps and the centre interior lamps will illuminate.

Press the button again to switch off the lamps.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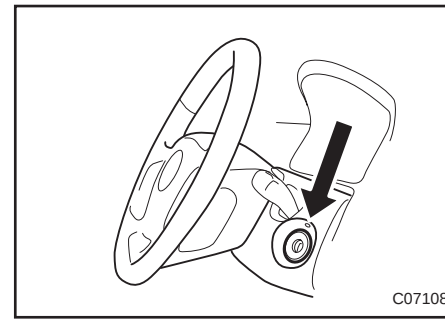
Ignition switch lamp

The ignition switch lamp illuminates when a door is opened. The lamp will stay illuminated for approximately 10 minutes if the door is left open.

When the door is closed the lamp stays illuminated for approximately 10 seconds, then switches off.

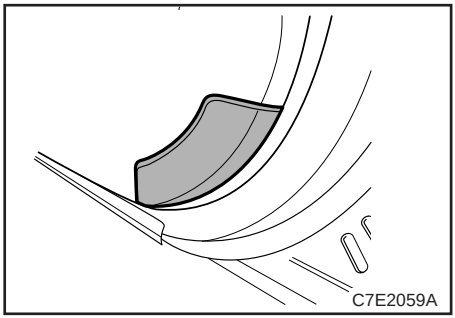

C07108

INTERIOR LAMPS cont.

Front door step lamps

The front door step lamps illuminate when a door is opened. If the door is left open the lamps will stay illuminated for approximately 10 minutes.

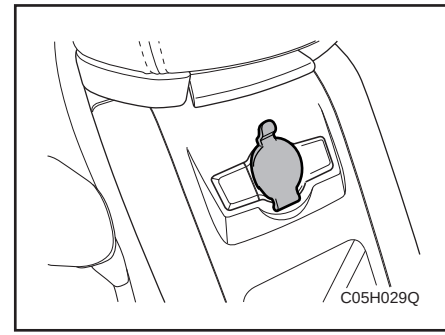
When the front door is closed the lamp stays illuminated for approximately 10 seconds, then switches off.



ACCESSORY POWER OUTLETS

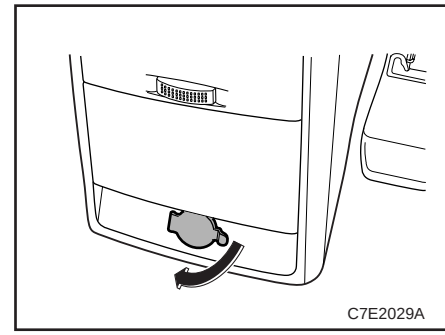
Front centre console

An accessory power outlet is located in the front centre console at the rear of the front cup holders.



Rear centre console

An accessory power outlet is located on the rear of the centre console below the rear cup holders.



Rear luggage area

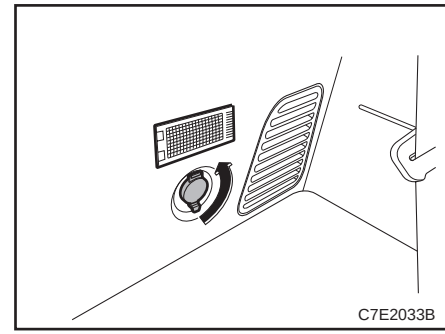
An accessory power outlet is located on the right-hand side of the rear luggage area.

Equipment connection

To plug in auxiliary electrical equipment, flip the outlet cover open and follow the installation instructions that are included with any electrical equipment to be installed.

These circuits are protected by a fuse and have a maximum current load. When not in use, always cover the outlet with the protective cap.

Note: The ignition switch must be in the ON or ACC position for the outlets to operate.



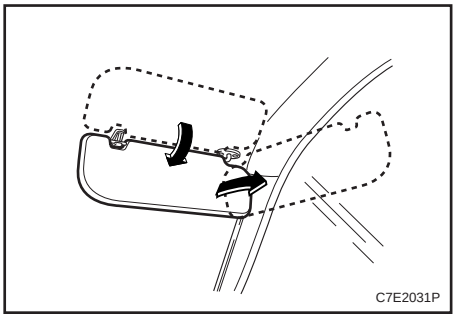
WARNING:

When using all accessory power outlets, the total maximum electrical load must not exceed 10 amps at 12 volts. Always switch off any electrical equipment when not in use. Leaving electrical equipment on for extended periods with the engine stopped will drain the battery.

SUN VISORS AND ASSIST GRIPS

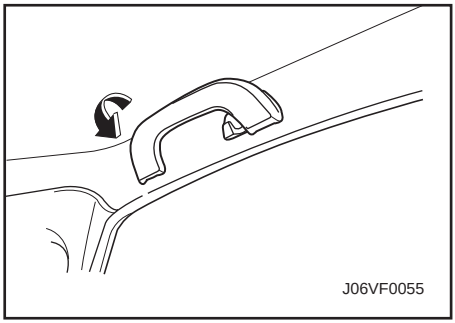
Sun visors

The padded sun visors are used to block out the sun. They can be pivoted up, down and to the side when unhooked, both sun visors have a ticket holder.



Assist grip

Assist grips are located above the doors to help occupants when getting in and out of the vehicle.
The assist grips above each rear door include a coat hook.

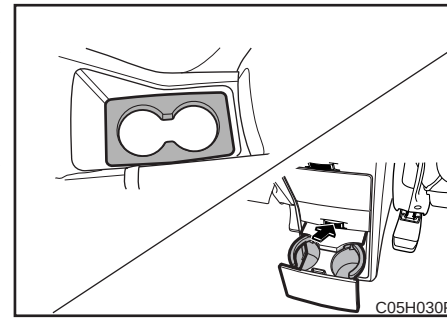


STORAGE COMPARTMENTS

Cup holders

The cup holders are located in the front and rear of the centre console, the front cup holders are easily accessible.

To use the rear cup holder, push the button above the cup holder, it will pop out automatically.

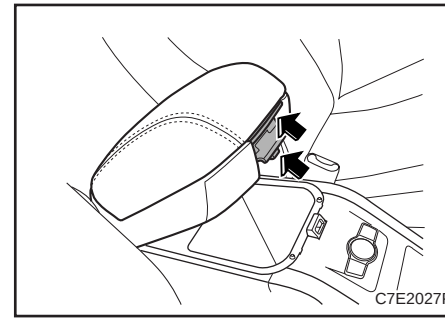


Front centre console

The centre console is located between the two front seats.

To open the centre console lid, pull up on the lower lever and lift the lid upward.

To close the centre console lid, lower the lid and push it down until it latches.



Second tray and sliding armrest ✻

The upper arrow indicates the location of the slide out armrest and second tray latch.

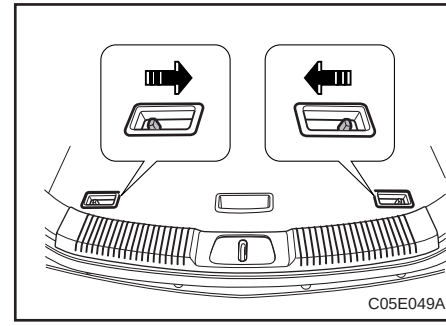
To open the second storage tray, pull upward on the upper lever and lift the lid upward.

To slide the armrest forward, unclip the upper lever and slide the armrest forward to the desired position.

Under floor storage

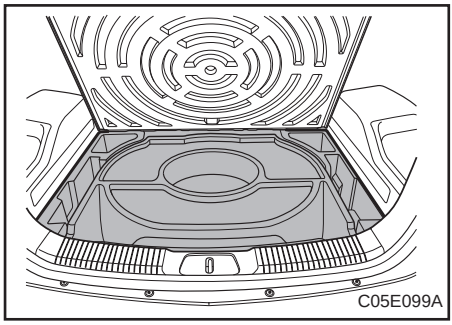
Storage compartments are located under the floor of the rear luggage area.

To gain access to the under floor storage, release the two latches and lift the floor panel upward with the handle.



STORAGE COMPARTMENTS cont.

Note: Do not allow items in the storage compartment to extend above the top of the storage container, otherwise the storage compartment or the luggage area floor panel may be damaged.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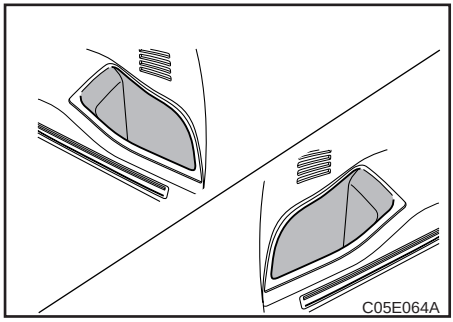
Floor side trays

Floor side trays are located on both sides of the rear luggage area.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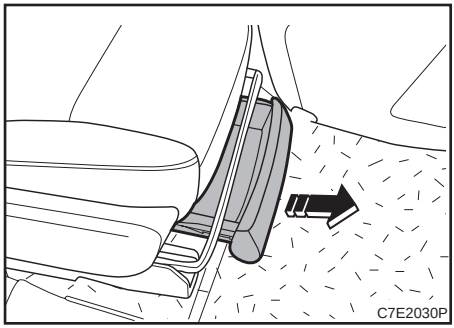
Front passenger seat storage tray

To open the front passenger seat storage tray, pull upward on the end of the tray and slide it forward. Push the tray back under the seat to secure it in the original position.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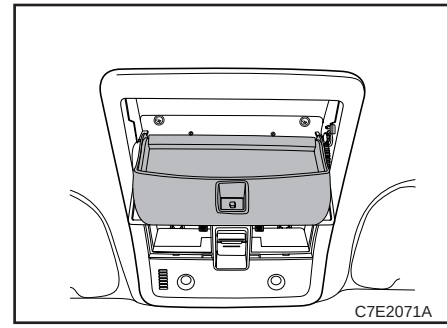
STORAGE COMPARTMENTS cont.

Sunglass holder

The sunglass holder is located behind the map lamps.

To open, push on the rear part of the cover.

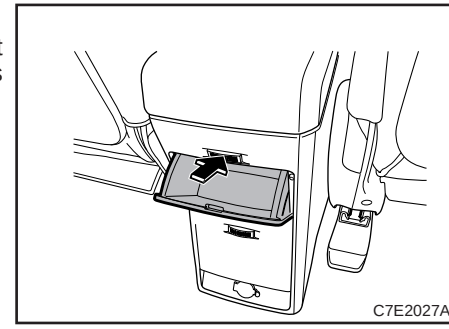
To close, push upward until it latches.



Rear storage compartment

The rear storage compartment is located at the rear of the centre console, to open, press the button above the compartment.

To close, push upward until it latches.



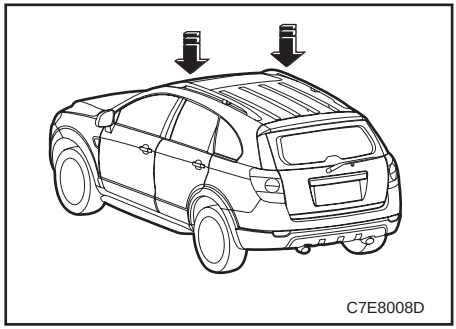
ROOF RAILS

Roof rails

The roof rails can be used to carry additional cargo, or bulky items which are better carried outside the vehicle rather than inside.

The roof rails are attached to the roof of the vehicle.

Ensure the load is evenly distributed over the rails, the roof surface must not be subjected to any load.



WARNING:

Loaded roof rails alter the vehicles centre of gravity, do not drive at high speeds, always drive carefully when:

- **Cornering**
- **In cross winds**

CHAPTER 4

Driving

Page

4-2 Safety

4-4 Engine starting

4-5 Driving precautions

4-8 Automatic transmission

4-12 Anti-lock brake system (ABS)

4-13 Electronic stability program (ESP®)

4-15 Descent control system (DCS)

4-16 All wheel drive system (AWD)

4-17 Park brake

4-18 Cruise control

4-20 Add on equipment

❇ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

SAFETY

Before entering the vehicle

1. Check that windows, mirrors and lights are clean.
2. Visually check tyre inflation.

   Note: It is recommended to check the tyre pressures with a pressure gauge each week.

Before driving away

1. Ensure that all doors are closed and secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check if the warning indicators light up when you turn the key to start the engine, refer to Chapter 1, Dashboard.

   Automatic only: Have the ignition on and press the brake pedal before moving the transmission selector away from the **P** (park) position.

Parking

1. Apply the park brake.
2. Manual transmission: Place in reverse or first gear.

   Automatic transmission: Place in **P** (park) position.
3. Close all windows.
4. Switch off all exterior lights.
5. Turn the ignition key to the **LOCK** position and remove the key.
6. Lock all doors.

WARNING:

- **To avoid the possibility of injury, always fully apply the park brake before exiting the vehicle.**
- **Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with the hot exhaust system.**
- **Never leave the engine running in an area such as a closed garage or underground car park.**

SAFETY cont.

Off road driving

The Captiva has not been designed as a full off road vehicle. The requirement to maintain a very high degree of comfort, ride, handling and stability dictates the ground clearance may not be sufficient to allow the vehicle to be driven over very severe four wheel drive tracks.

To achieve a high degree of unsealed road capability, the vehicle is equipped with a fully automatic all wheel drive system, increased ground clearance and a traction control system.

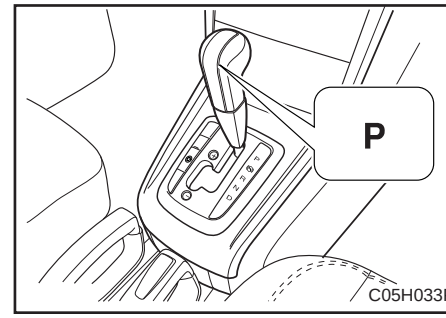
Road conditions

The vehicle is capable of being driven over poorer roads, although extra care must be taken when driving in conditions that may not be familiar. Some roads are often not well maintained and may have washaways, loose or slippery patches, rocks, fallen tree branches, deep pot holes or ditches that can catch out the unwary driver. These roads must be driven at slow speed and with great caution.

It is highly advisable to travel with another vehicle when travelling on remote or poor quality roads.

Engin E STAr Ting

Starting procedure



1. Apply the park brake firmly and release it only after you have started the engine and are ready to drive away.
2. Move the shift lever to the **P** (park) or **N** (neutral) position. The engine will not start if it is in any other position. As a safety precaution, you should have your foot on the brake pedal in order to shift the transmission lever out of the **P** (park) position.
3. Start the engine as outlined below.

   For cold or hot starting, the procedure is the same. Do not touch the accelerator pedal. Simply turn the key to the START position momentarily and then release it, as the engine starts automatically. The key automatically returns to the ON position when released.

   If the engine does not start within 10 seconds, wait another 15 seconds to let the starter motor cool down. Turn the key to the START position again with the accelerator pedal pushed completely down to the floor for a maximum of 10 seconds. If the engine still does not start, release the key and pedal. Wait another 15 seconds and then repeat the entire procedure. If the engine still fails to start, contact your Holden Dealer.

Engine will not crank or start

Remove the key from the ignition switch, insert the key and try starting the engine again.

Note: If the malfunction indicator lamp illuminates while attempting to start the vehicle, a fault in the vehicle's immobiliser module may be indicated. The vehicle will not start with an immobiliser fault, contact your Holder Dealer to have the fault rectified.

WARNING:

When trying to start the engine, do not hold the key in the start position for any extended time, for if unburnt fuel were to reach the catalytic converter and ignite, the catalytic converter could overheat or be destroyed by backfire.

Note: You should not subject the engine to high load conditions (for example full throttle acceleration or high speeds) until it has completely warmed up. Otherwise, you may cause premature engine wear or engine damage.

Dri Ving Pr ECAUTiOnS

Running-in

These days, there is no need to follow the formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your vehicle's future performance and economy.

For the first 500 km, do not exceed 90 km/h. Up to 1500 km, avoid driving at any one speed, either slow or fast, for any length of time.

Include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

For the first 500 km heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency.

It is best to drive your new vehicle for 1500 km before towing a load. If you must tow before this do not exceed 80 km/h on good roads. No heavy off road towing should be attempted before 1500 km.

Off-road

Following a period of off-road driving, particularly in wet weather, the front of the vehicle should be hosed down to clear any accumulation of mud. In particular, pay specific attention to both sides of the radiator.

Engine misfire

If the engine is misfiring, reduce the vehicle speed and do not attempt to tow a caravan or trailer, until the misfiring is corrected by the nearest Holden Dealer. Continued driving while the engine is misfiring could result in the catalytic converter and exhaust system overheating, resulting in vehicle damage.

Loose articles

Do not leave loose articles or luggage in the passenger compartment or the rear luggage area, always secure all items.

WARNING:

Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. It is recommended that if gas cylinders are frequently transported, a purpose built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some states.

Loading the vehicle

Loading the vehicle changes the mass distribution and therefore the handling of the vehicle when driving. After loading the vehicle, extra care should be taken to become familiar with the feel of the vehicle while driving, refer to Chapter 9, Tow and load. Refer to Chapter 7, Weekly checks, for information on tyre pressure when the vehicle is loaded.

Dri Ving Pr ECAUTiOn S cont.

Brakes

Power assisted brakes, which are fitted to your vehicle, utilise vacuum from the engine when it is running. Never let the vehicle run down steep inclines without the engine running. Never coast with the engine switched off.

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to suit the road conditions.

Driving through water may affect performance. Applying the brakes lightly will indicate if they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.

Your seat should be positioned so that you can push the brake pedal satisfactorily under all braking conditions.

Power steering

The steering system fitted to your vehicle is power assisted. It has been designed to reduce steering effort. Care should be taken not to hold a prolonged turning force on the steering wheel when the steering is at left or right lock when stationary (e.g. during parking manoeuvres) as this creates high operating temperatures and pressures within the system.

If the power assistance for the steering is not working, because a fault has developed, the vehicle can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

Tyre grip

A decrease in tyre grip occurs when water, snow, ice, gravel or other materials are on the road. Driving speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of grip, which affects steering and braking. To reduce the possibility of hydroplaning:

- Reduce speeds during rainstorms.
- Replace tyres when tread wear indicators are visible.
- Regularly check if the tyres are properly inflated.

When driving on dusty roads, a build up of dust accumulates on the inner surface of the rear wheel rims. When the vehicle stops the dust from the top of the rim may fall to the bottom, creating an out of balance condition which can cause noticeable shake or vibration in the vehicle at speeds over 80 km/h. If the vibration is objectionable, the dust will need to be removed from the inner rims with a scraper or similar.

Mud and snow tyres

WARNING: When fitted with winter tread tyres, the vehicle should not be driven at speeds in excess of the tyre category symbol as moulded on the tyre, or in the absence thereof, at high speeds.

Dri Ving Pr ECAUTiOn S cont.

Difficult conditions

If there is any doubt about the road being passable, it is better to stop the vehicle well before the hazard and check on foot before driving the vehicle through it.

If the ground is very uneven or rocky, do not grip the steering wheel with your thumbs around the rim of the wheel. A sudden steering kickback due to an unseen obstacle could cause injury to the thumb.

Ensure all luggage, and equipment is securely tied down when driving over rough or uneven surfaces.

Snow chains

WARNING: You must not use standard snow chains if your vehicle is fitted with 17 or 18 inch wheels. The fitting of standard snow chains to larger size wheels may cause damage to your vehicle. Please check with your Holden Dealer for available alternatives.

Provided the correct snow chains are fitted ensure the following are observed:

- Snow chains may only be used at speeds up to 50 km/h.
- When driving on roads that are free of snow, Snow chains should only be used for brief periods, as they will wear quickly and may snap.
- The part of the snow chain that covers the tyre tread should not be thicker than 13 mm. The part of the snow chain that wraps around the side of the tyre should not be thicker than 15 mm (including the chain clasp). The use of thicker chains may cause damage to the body of the vehicle.

Mobile phones and CB radios

Mobile phones and CB radio equipment, which use an integrated antenna, may temporarily affect the vehicle's electronics (permanent damage is unlikely) when used inside the vehicle, due to the interference created when transmitting.

Therefore, mobile phones and CB radio equipment that use an antenna fitted to the outside of the vehicle, should be used whenever possible.

If phones or CB radios with an integrated antenna must be used inside the vehicle, care should be taken not to operate near the dashboard area.

Water crossing

Before crossing water it is recommended to switch off the air conditioning.

If it is necessary to drive through deep water, check the depth with a stick or by wading into the water before driving through. Do not attempt to drive through water more than 300 mm deep (approximately 12 inches). Always drive through deep water very slowly, as too high a speed would make a bow wave that may cause water to enter the engine through the inlet system and cause major damage. Never drive into fast running water. The force of the water can easily move the vehicle sideways, possibly into deeper water.

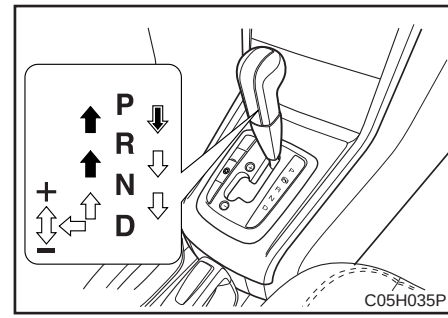
Always check the brakes for effectiveness immediately after driving through deep water. Drive slowly and check the pedal force. If the brakes are wet, several firm brake applications will dry them out quite quickly.

If the vehicle is stationary in deep water for an extended period, it should be checked by an authorised Holden Dealer as soon as practicable for water entry to engine, transmission, differentials and wheel bearings.

AUTOMATiC Tr AnSMiSSiOn

This system has a five-speed electronically controlled automatic transmission. Its shift indicators are arranged with **P** (park) at one end, followed in sequence by **R** (reverse), **N** (neutral) and then the forward driving ranges.

To prevent the vehicle from 'creeping' you should always have your foot on the brake pedal when shifting out of **P** or **N.**



P (park) This stops the front wheels from rotating and should be selected (together with the park brake) when leaving the vehicle. Never select **P** until your vehicle is fully stopped. The **P** position is one of only two positions (the other is **N**) in which your engine may be started.

R (reverse) Never select **R** until your vehicle is fully stopped. The reversing lights operate when **R** is selected and the ignition is on. After reversing, ensure the vehicle has fully stopped before selecting a forward gear.

N (neutral) This is the out-of-gear position. You may restart a stalled engine while the vehicle is still moving or stopped.

D (drive) This is the normal forward driving position and allows the transmission to choose the appropriate gear (1st through to 5th) for the driving conditions and optimum fuel economy.

Fifth gear is overdrive which reduces engine speed and noise levels while increasing fuel economy.

Shifting between gear positions

Movement between certain gear positions requires pressing the release button on the front of the selector grip.

When the ignition is on, depress the brake pedal and press the release button on the front of the selector grip as indicated by the black / or white arrows as follows:

⇛ You must apply the brake pedal and press the release button on the selector grip to shift.

➡ You must press the release button on the selector grip to shift.

⇨ It is not necessary to apply the brake pedal or press the release button on the selector grip to shift.

AUTOMATIC TRANSMISSION cont.

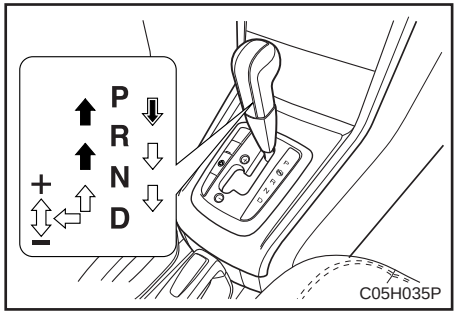
WARNING:

You can select some transmission positions without pressing the button on the selector grip. However, it is recommended that you become familiar with these positions to prevent any accident or damage to your transmission that may occur due to incorrect operation.

Active select mode

Whether your vehicle is stationary or in motion, active select mode is selected by pushing the select lever from the **D** position to the left into the manual gate. To return to **D** range operation, pull the select lever back to the right into the main gate.

In active select mode moving the select lever backward and forward can make rapid gear shifts simple. In contrast to a manual transmission, the active select mode allows gearshifts with the accelerator pedal depressed.



UP (**+**) : Push the lever forward once to shift up one gear.

DOWN (**-**) : Pull the lever backward once to shift down one gear.

Note:

- In active select mode, only the five forward gears can be selected.
- To reverse or park the vehicle move the select lever to the **R** or **P** position as required.
- In active select mode, downward shifts are made automatically when the vehicle slows down. When the vehicle stops, 1st gear is automatically selected.
- To maintain the required levels of vehicle performance and safety, the system may not execute certain gear shifts when the select lever is operated.
- Before driving away from a stop on slippery road, push the select lever forward into the **+** (up) position. This causes the transmission to shift into 2nd gear for a smooth start. Pull the select lever to the **–** (down position) to shift back to 1st gear.

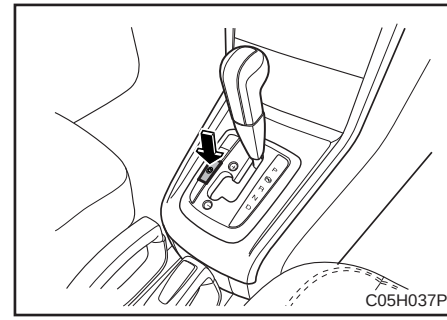
AUTOMATIC TRANSMISSION cont.

Winter mode

Use the winter mode in the event of starting or driving difficulties on icy and slippery roads. This mode will reduce slippage and loss of traction.

To activate the winter mode, press the winter mode switch on the centre console. The vehicle will move away in third gear, the winter mode indicator will illuminate on the instrument panel.

To return to normal mode, press switch again, the indicator lamp switches off.



Automatic transmission emergency operation

If a problem is detected with the automatic transmission, the Malfunction Indicator Lamp illuminates.

In this situation, the transmission may not shift automatically, or shifting may be much harsher than normal. Have the vehicle serviced as soon as possible by your Holden Dealer.

If the malfunction indicator lamp stays on after starting the engine and the transmission does not shift, refer to Chapter 6, Transmission shift lock control system, for more information.

Operating notes:

- Do not go from **P** or **N** to **R** or **D** with the accelerator pedal depressed.
- When driving down a long hill, reduce your speed and select a lower range. The engine will provide a braking effect. Remember if you ride the brakes, they may overheat, resulting in reduced performance. This is particularly important when towing.
- Be careful when accelerating, shifting up, shifting down or braking on a slippery surface. The abrupt change in engine speed, such as sudden acceleration or engine braking, could cause the drive wheels to spin or skid.
- Do not depress the accelerator pedal with the brakes on in either **D** or **R**. This would overheat the transmission.
- Do not use the accelerator pedal to hold the vehicle on a slope, use the brakes.
- Do not coast the vehicle in **N** as this lessens your control and the engine braking power.
- Refer to Chapter 7, Weekly checks, for checking automatic transmission fluid level.

AUTOMATiC Tr An SMiSSiOn cont.

Transmission kick down

For faster acceleration, press the accelerator pedal all the way down and hold it. The transmission will shift to a lower gear giving more power. When the desired speed is reached, lift off the accelerator and the transmission will shift up.

Engine braking

Use the braking effect of the engine compression when driving on a long downhill. Using the active select lever, select a lower range.

Engine braking is the most effective when using a lower range.

Stopping the vehicle

The select lever can be left in the chosen drive range with the engine running, when stopping on a hill, engage the park brake or press the brake pedal. Do not hold the vehicle stationary by pressing the accelerator.

An Ti-LOCK Br AKE SYSTEM (ABS)

The anti-lock brake system (ABS) continuously monitors the vehicle's brake system and prevents the wheels from locking, irrespective of the road conditions and tyre grip. It starts to regulate the braking effect as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even in the event of panic braking, for instance on bends or when swerving to avoid an obstacle.

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicles speed should always be adjusted to suit road and traffic conditions.

In an emergency braking situation the driver should keep full force on the brake pedal without pumping it. Pumping the brake pedal can reduce brake efficiency when ABS is controlling the braking.

The ABS warning light is illuminated for a few seconds when the ignition is switched the ON position. If it does not go out, or if it comes on during driving, there is a defect in the ABS. The vehicle's brake system remains operational but without ABS assistance. You should consult your Holden Dealer as soon as possible.

The braking effect is regulated by the ABS every millisecond during braking.

When your vehicle is in a critical braking condition, ABS makes itself noticeable through pulsing of the brake pedal and the noise of the regulation process, thereby reminding you to match your speed to the road conditions, even though it is keeping control of the braking.

Shortly after driving away, the system performs a self-check. The self-check may be audible as well as felt as pulsing through the brake pedal.

Brake pedal

Where possible, avoid braking hard. Smooth operation of the brake pedal will increase the life of the brakes and reduce the wear on the braking system.

If under normal vehicle operation the brake pedal develops abnormal behaviour, see your Holden Dealer.

ELECTr OniC STABiLiTY Pr Ogr AM (ESP®)

Monitoring

The Electronic Stability Program (ESP®), is an advanced feature that works in conjunction with the vehicle's Anti-lock Braking System (ABS) and includes the Traction Control System (TCS). When required, the ESP® improves driving stability in any driving situation.

The ESP® assists in maintaining vehicle stability by providing intervention when the vehicle's grip level is exceeded (such as a sudden lane change, slippery or unexpected road conditions). The ESP® processes information from the various vehicle sensors and can intervene by altering engine power and/or braking on specific wheels as required. This can improve the vehicle's steering control and power delivery, on wet or slippery roads, particularly on snow or ice.

Hydraulic Brake Assist system (BA)

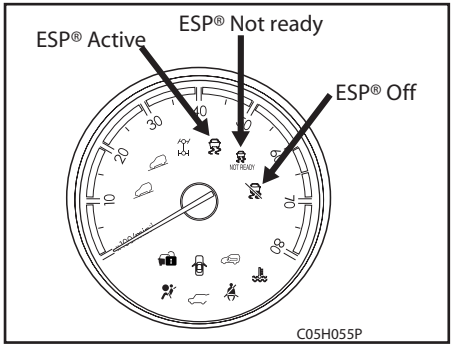
The hydraulic brake assist system is incorporated in the ESP® unit and detects when the driver is applying the brakes in a panic stop situation, by recognising how rapidly the accelerator is released and the brake pedal is applied. The BA initiates ABS earlier, shortening the stopping distance required.

WARNING:

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

Operation

The ESP® function operates automatically in very unstable conditions, it does not operate under normal driving conditions.



ESP® not ready

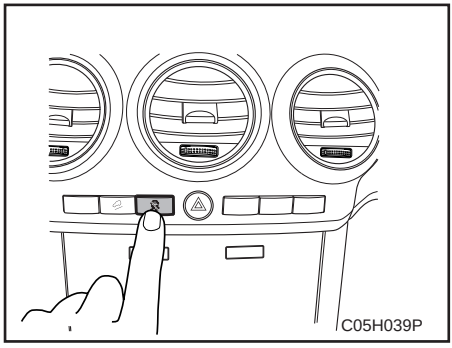
The ESP® not ready indicator illuminates when the ESP® is not ready for operation due to cold conditions, this indicator will extinguish when the vehicle warms up.

ESP® off button

In certain conditions it may be helpful to disable the ESP® by pressing the ESP® off button located on the left-hand side of the digital clock. For example , if the vehicle is bogged in deep mud or sand, it may be possible to get more traction from a slightly spinning wheel.

Pressing the ESP® off button again will resume the ESP® function and the ESP® off indicator will extinguish.

Note: If the ESP® off does not illuminate when the button is pressed, or it illuminates while driving, it indicates the ESP® system is not functioning. See your Holden Dealer.



ELECTr OniC STABiLiTY Pr Ogr AM (ESP®) cont.

Electronic brakeforce distribution (EBD)

This system senses the vehicle load (both passengers and luggage) and optimises rear braking force. This system works in combination with the ABS system to prevent excessive braking locking the rear wheels by transferring braking pressure between the front and the rear axles.

Traction control system (TCS)

This system uses sensors that detect imminent wheel spin, if one wheel is about to spin, braking is applied to transfer torque to a wheel with better traction, this improves performance when starting off and accelerating.

Active rollover protection (ARP)

This function is part of the ESP® system with an additional sensor that monitors the vehicle body roll. ARP detects at an early stage the possible threat of the vehicle rolling over. For example, if the system recognizes a hasty steering movement and body roll that is typical of an obstacle avoidance manoeuvre, it rapidly applies the brakes with high bursts of pressure to the appropriate wheels to interrupt the rollover before it occurs.

DESCENT CONTROL SYSTEM (DCS)

Description

The descent control system is only for driving down steep gradients, it maintains the slow speed descent of your vehicle.

The descent control system works in conjunction with the cruise control system and utilises the active braking capability of the vehicles Anti-lock Braking System (ABS) to maintain an initial target vehicle speed (5 km/h) when travelling downhill.

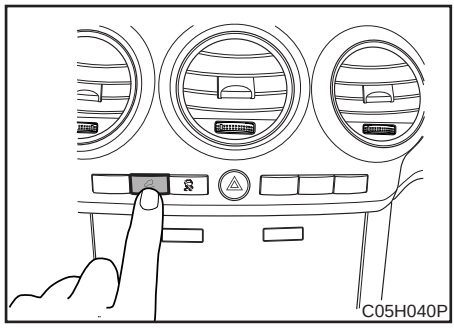
Operation

The descent control system can be used when driving forward or in reverse.

The descent control system is activated using the switch located on the right-hand side of the digital clock.

The accelerator pedal must not be depressed when DCS is activated.

The green DCS active indicator will illuminate when switched on. When the DCS is operating the DCS active indicator will flash.

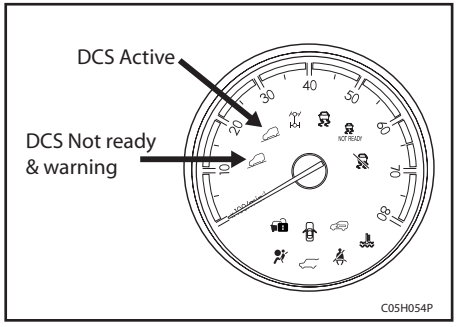


Note:

- If the driver needs to stop on a slope or go slower than 5km/h, the brake pedal can be depressed, it will just momentarily de-activate the DCS. It will re-activate a few seconds after the brake pedal is released.
- If the amber DCS not ready and warning indicator illuminates it indicates there is a malfunction in the DCS system. If this condition occurs, see your Holden Dealer.

DCS off

To deactivate the DCS, press the DCS button again the DCS active indicator will extinguish.



Note:

- The DCS will not operate when the vehicle speed is over 50 km/h.
- DCS is designed for off road driving when negotiating steep gradients.
- Unnecessary usage of DCS can cause a malfunction in the brake system or ESP®. Do not use DCS when driving on normal roads.
- It is normal to have strong vibrations and noise from the brake system when DCS is activated.

ALL WHEEL Dri VE SYSTEM (AWD)

Operation

The active on demand all wheel drive system (AWD) operates automatically without any action required by the driver. If the front drive wheels slip, the rear wheels automatically drive the vehicle as required. There may be a slight engagement noise during hard use, this is normal.

The AWD warning indicator on the right-hand side of the instrument panel flashes when the AWD system is temporarily disabled.

If the lamp flashes briefly and then stops, this is normal and does not indicate a system fault. However if the indicator flashes continuously this indicates there is a malfunction in the AWD system. See your Holden Dealer.

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PAr K Br AKE

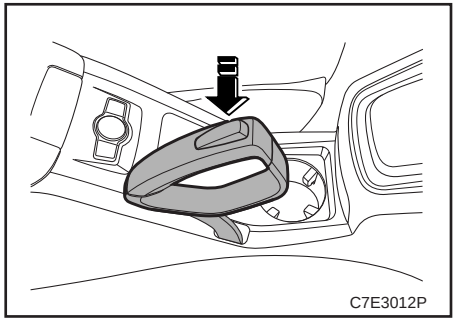
Park brake

The park brake acts on the rear wheels and the lever is located between the front seats.

To apply the park brake, stop the vehicle, apply the brake pedal and pull the lever firmly upward.

To release the park brake:

1. Push the button on the lever.
2. Pull the lever up slightly.
3. Lower the lever while holding the button in.



WARNING:

Do not drive the vehicle with the park brake applied.

Cr UiSE COn Tr OL

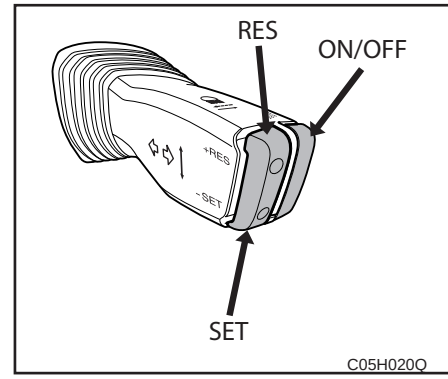
Description

The cruise control maintains the speed of the vehicle from approximately 40 km/h and upward without having your foot on the accelerator pedal. When the brakes are applied the cruise control disengages.

If your vehicle is in cruise control mode when the traction control system begins to limit wheel spin, the cruise control will automatically disengage. When road conditions allow you to safely use it again you may switch the cruise control back on.

To set initial speed

- Press the ON/OFF button located on the indicator stalk, to switch the cruise control on.
- Accelerate to the desired speed (above 40 km/h).
- Press the SET button and release it. An indicator lamp on the instrument panel will illuminate to show cruise control is on.
- Take your foot off the accelerator pedal.



To adjust the set speed

There are two ways to increase the set speed:

1. Use the accelerator pedal to get to a higher speed, press the RES button, then release the button and the accelerator pedal. The vehicle now maintains the new set speed.
2. Press and hold the RES button until you get to the desired higher speed, and then release the button. To increase a set speed by small amounts, press the RES button briefly then release it. Each time you do this the set speed increases by 2 km/h.

There are two ways to reduce the set speed:

1. Press and hold the SET button until you reach the desired lower speed, then release the button.
2. To decrease a set speed by small amounts, press the SET button briefly then release it. Each time you do this the set speed decreases by 2 km/h.

Passing another vehicle

Depress the accelerator pedal to increase your speed. When you take your foot off the pedal, the vehicle will slow down to the cruise control speed set earlier.

Resume set cruise speed

If after braking you want to return to the previously set cruise speed, press the RES button and the vehicle will return to the selected speed.

Cr UiSE COn Tr OL cont.

Using cruise control on hills

When going up a steep hill, you may have to depress the accelerator pedal to maintain your speed. When going downhill, you may have to brake or shift to a lower gear to decrease the vehicles speed. Applying the brakes disengages the cruise control.

Switching off the cruise control

There are two ways to switch off the cruise control:

- Depress the brake pedal
- Press the ON/OFF button on the indicator stalk.

Note: When the cruise control or the ignition is switched to the OFF position, the cruise control set speed memory is erased.

WARNING:

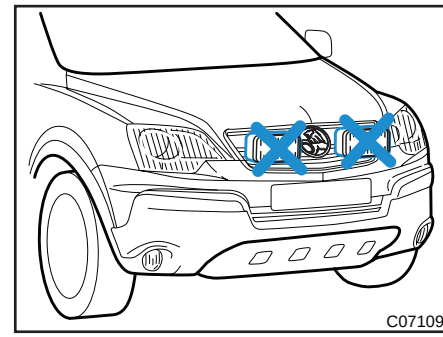
- **Do not use the cruise control when road or driving conditions require varying speeds, A consistent speed isn't practical in heavy or varying traffic, or on winding, slippery or rough roads.**
- **The cruise control does not apply the vehicles brakes. Therefore the vehicle may gain speed when going down steep hills.**
- **When climbing steep hills (particularly when towing) it is possible for the vehicle to lose speed. You may need to switch off the cruise control and use the accelerator pedal.**

ADD On EQUiPMEn T

Fitting driving lights or insect screens

When fitting these accessories be careful not to restrict air flow, otherwise engine overheating and/or poor air conditioning performance may result.

Nothing should be fitted over the upper or lower air intakes at the front of the vehicle, as this will affect engine cooling.



Fitting roo/nudge bars

If a roo/nudge bar is to be fitted, it is critical the Holden approved roo/nudge bar be used. Other types ***must not*** be fitted. The Holden roo/nudge bar is available from your Holden Dealer and has been compatibility tested with the vehicle's design, including the Holden airbag system.

WARNING:

Fitting other types of roo/nudge bars may affect crash performance, airbag performance and engine cooling.

Fitting a roo/nudge bar, or making other modifications to the front of the vehicle, may change the impact speed which would normally cause the airbag to inflate, reducing its effectiveness. Roo bars should not be fitted to vehicles operating in suburban areas, as they increase the risk of injury to a pedestrian in the event of a collision. Roo/nudge bars are only recommended for country or outback areas, where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where road side signs indicate wildlife is abundant.

Cargo barrier

If a cargo barrier is to be fitted, it is critical the Holden approved cargo barrier be used. Other types ***must not*** be fitted. The Holden cargo barrier is available from your Holden Dealer and has been compatibility tested with the vehicle's design, including the Holden side curtain airbag system, fitting any other type of cargo barrier may interfere with the deployment of the side curtain airbag system and reduce its effectiveness in protecting passengers (excluding third row seats) in the event of a collision.

notes

CHAPTER 5

Fuel

Page

5-2 Fuel

5-3 Fuel filling

5-4 Petrol – emission control

5-5 Reducing fuel consumption

WARNING:

The vehicle's engine has not been designed for conversion to LPG. The performance and safety of the vehicle would be seriously jeopardised if converted to LPG.

❇ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

FUEL

EXHAUST WARNING: CARBON MONOXIDE POISONING

- **Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.**
- **You could inhale the gases if the exhaust system on your vehicle is faulty.**
- **To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:**
  - **– each time the vehicle is serviced,**
  - **– whenever a change is noticed in the sound of the exhaust system,**
  - **– whenever the exhaust system, underbody or rear of the vehicle is damaged.**
- **Take the vehicle to your Holden dealer if you think your vehicle needs inspecting for any of the above reasons.**
- **Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running. Turn the fan on using any setting that brings outside air into the vehicle. Do not run the engine in an enclosed area (such as a garage) any longer than needed to move the vehicle.**
- **Be sure to seal any unused top strap anchor location holes with the supplied plug or with a suitable bolt. Otherwise exhaust gas may enter the vehicle through these holes. See "Child Restraints" in Chapter 3, Know your vehicle.**

PETROL WARNING:

- **Petrol is extremely flammable and highly explosive.**
- **Always switch off the engine and any mobile phones when refuelling.**
- **Do not smoke or allow open flames or sparks near the vehicle when refuelling.**
- **If petrol fumes are smelt while driving, the cause should be found and corrected without delay by a Holden Dealer.**
- **Static electricity can ignite fuel vapour. Only use pumps, hoses and containers that are properly grounded when filling up with fuel.**
- **To avoid injury, to you and to others, read and follow all instructions on the petrol station pump.**

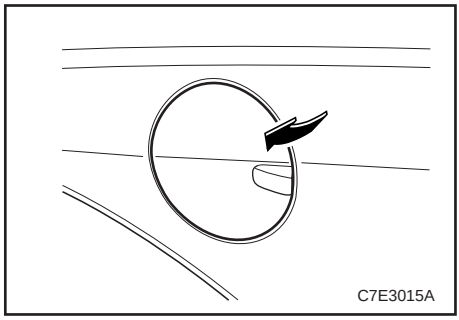
ETHANOL WARNING :

- **Under no circumstances should you use fuel containing more than 10% ethanol. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation. These adverse effects could result in permanent damage to your vehicle and personal injury. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties.**
- **It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.**

FUEL FILLING

Fuel filler door

- Stop the engine.
- Unlock the doors by pressing the door lock switch on the driver's door trim pad, then the fuel filler door can be opened by hand.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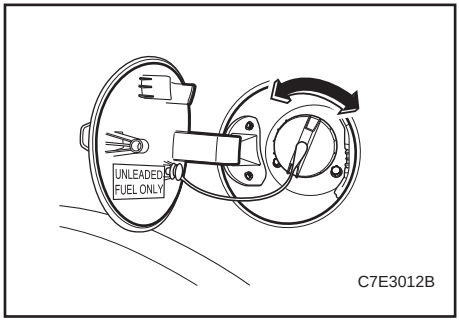
Fuel cap

Remove the fuel cap by turning it slowly anticlockwise.

WARNING:

If you open the cap rapidly while pressure in the tank is high, fuel may spray out from the tank. Turn it slightly to release the pressure from inside the tank.

After refuelling, turn the fuel cap clockwise until a clicking sound is heard, then push the fuel filler door closed. When closing the fuel door, make sure that it latches.



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Note: Use UNLEADED PETROL of 91(RON) octane rating or higher.

High octane unleaded petrol (premium etc.) may be used, but is not required for your vehicle. The use of fuel with a lower octane rating than recommended may cause engine knock. Continued use of such fuel can cause engine damage and void the warranty. If you detect a heavy engine knock even when using fuel of the recommended octane rating, have the engine checked.

Petrol tanks should always be filled at the intermediate or fast fill rate. Do not add any more petrol after the petrol filler first clicks off or petrol blows back - as this allows room for the petrol to expand inside the tank.

If you accidentally spill fuel on the vehicles exterior surfaces, it can damage the paint. Wash it off as soon as possible.

Petrol filler nozzle restrictor

To help protect the atmosphere, your vehicle has been designed to operate on unleaded petrol. A petrol nozzle restrictor is fitted to ensure that only unleaded petrol is used. This allows the smaller diameter unleaded petrol nozzle to open the hinged flap inside the filler neck, so that petrol can be added to the tank. The leaded petrol nozzle is wider and therefore can not open the flap.

WARNING:

The use of fuel, other than the fuel specified, may cause serious damage to your vehicle and may void your warranty. Only clean fuel of good quality should be used.

PETROL – EMISSION CONTROL

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. HC and NOx, when exposed to sunlight under certain conditions can contribute to smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your vehicle are:

- **Evaporative Emission Control System**

  This system is designed to prevent the escape of fuel vapour from the fuel system and recycles it through the normal combustion process.

- **Crankcase Emission Control System**

  This system is designed to prevent blow-by gases from escaping into the atmosphere and recycles them through the combustion process.

- **Exhaust Emission Control System**

  The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust emission control system is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to your vehicle's service manual and / or the emission label inside the engine compartment of your vehicle.

Owner responsibility

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine control system or the exhaust system of the vehicle must not be modified in any way. Any change to the design may increase the emissions or otherwise defeat the intent of the regulations.

WARNING:

Any person who removes, modifies or hinders any part of the emission control system may be contravening Australian Design Rules, refer to A.D.R. 83/00 (External Noise) and A.D.R. 79/02 (Emission Control for Light Vehicles). It is also illegal to drive a vehicle modified in this way.

First drive

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate, producing smoke-like emissions that should not be inhaled. Allow wax and oil to evaporate while the vehicle is in the open air.

Maintenance requirements

To ensure continuing compliance with the regulations, you must maintain your vehicle’s emission control system as per your vehicle's service manual, at the frequency shown in the maintenance schedule in the Service/Warranty Booklet. It is recommended the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance with the maintenance schedule in the Service/Warranty Booklet. This ensures items such as the spark plugs and air cleaner are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance and waste fuel, refer to Chapter 7, Weekly checks.

Incorrect tyre pressures can also cause uneven and premature tyre wear.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag which wastes fuel and causes uneven and premature tyre wear.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If you have to wait for more than a couple of minutes, switch off the engine to conserve fuel.

Accelerating, driving and braking

Accelerate gently and avoid rapid accelerating from lights or stop signs. Sudden bursts of speed, full throttle acceleration and hard braking are certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

Air conditioning

Switch off the air conditioning when not required. However, once every two weeks, with the engine running, switch the air conditioner on for five to 10 minutes, even in winter, to lubricate the seals.

Loading

Unnecessary weight increases fuel consumption, especially when accelerating.

CHAPTER 6

Emergencies

Page

6-2 Customer assistance

6-3 For New Zealand Holden owners

6-4 Roadside assistance

6-6 Hazard warning

6-7 Flat tyre

6-11 Towing your disabled vehicle

6-13 Engine overheating

6-16 Transmission shift lock control system

6-17 Flat battery

6-19 Airbags

6-22 Fuses

6-27 Bulb replacement

Your new vehicle is covered for 3 years by 24 hour Roadside Assistance.

✻ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer's Sales and Service Department.

We realise however that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Holden Dealer's management staff. If you have not received satisfaction from the Sales Manager or Service Manager – go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The contact number is:

1800 033 349

If your concern relates to parts / accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9797 7341.

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address.
- Telephone numbers, both private and business.
- Servicing Dealer's name and address.
- Vehicle model.
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the service booklet in your vehicle's glovebox.
- Date of purchase.
- Current odometer reading.

Most of this information can be found on the Vehicle Identification Certificate, located inside the front cover of the service booklet in your vehicle's glovebox.

Before you write however, remember the telephone is the quicker and more efficient means of communication.

FOR NEW ZEALAND HOLDEN OWNERS

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand. Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glovebox wallet.

New Zealand Assistance can be reached on:

☎ **0800 HOLDEN (0800 465 336)**

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

If you prefer to write the address is:

✉ The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne,
Australia, 3001.

ROADSIDE ASSISTANCE

3 YEAR
24 HOUR ROADSIDE ASSISTANCE

1800 Telephone numbers

1800 telephone numbers are tollfree from landline phones, however standard rates apply when using a mobile or public telephone.

Our commitment to your satisfaction

Holden's Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we'll be there to help through Holden Roadside Assistance.

How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by GM Holden Ltd. and delivered by the collective resources of the Australian Automobile Clubs and Associations including the constituents of Assist Australia (AA). To request a copy of the terms and conditions, contact Customer Assistance Service Line on 1800 033 349.

Which vehicles are covered by the service?

All new Holden passenger and light commercial vehicles are covered for 36 months from the date of first registration.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your vehicle to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside **Ultra** Assist which includes accommodation, alternative transport, rental vehicle, assistance in case of accident, theft and medical emergency and Australia wide vehicle recovery.

Can I upgrade to Roadside Ultra Assist?

Yes, owners can upgrade to Holden Roadside **Ultra** Assistance for a fee by dialling 1800 645 668. To request a copy of the **Ultra** terms and conditions, contact Customer Assistance Service Line on 1800 033 349.

ROADSIDE ASSISTANCE cont.

When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home, or at the roadside, almost anywhere in Australia, should you need it. In remote or sparsely populated areas you may experience delays in obtaining Roadside Assistance due to your location, the availability of the service provider and accessibility.

Is there a membership or joining fee?

No, Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting your local Holden Dealer.

What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the balance of the Holden Roadside Assistance. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

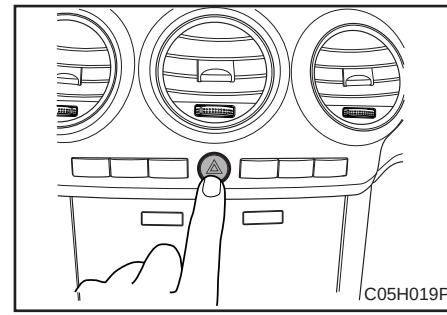
HAZARD WARNING

Hazard warning

Use the hazard warning to warn other drivers any time your vehicle becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.

Switch the hazard warning on or off by pressing the hazard warning switch, which is located under the centre air vent. Both indicator symbols on the instrument panel will flash simultaneously, and all four external signal lights will flash continuously.

Note: The hazard warning works with the ignition switch in any position.



FLAT TYRE

If using a jack other than the one supplied with the vehicle, refer to Chapter 7, Weekly checks, for lifting positions.

WARNING:

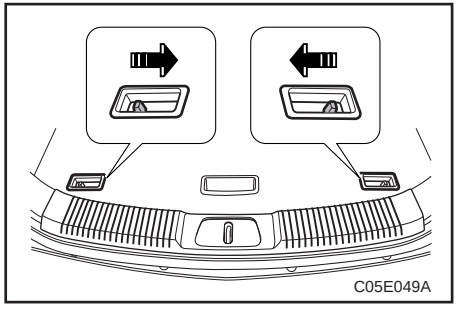
- **Use the jack only for lifting the vehicle when changing wheels.**
- **Do not get under a vehicle supported only by a jack, use vehicle support stands.**
- **Do not start or run the engine while the vehicle is only supported by the jack.**
- **All passengers should be out of the vehicle when it is being jacked.**
- **Use the jack only at the designated lifting points. Use in other locations can damage the vehicle.**
  - **The vehicle should only be jacked on hard, level surfaces.**

1. Park on level surface, ensure the wheels are pointing straight ahead and set the park brake firmly.
2. Remove the ignition key (to lock the steering) and place the transmission shift lever in the park (**P**) position.

Removing the spare wheel, jack and tools

The spare wheel, jack and tools are located below the luggage compartment floor.

1. Open the tailgate.
2. To access the spare wheel, jack and tools, slide the two latches toward the centre and lift the floor panel upward.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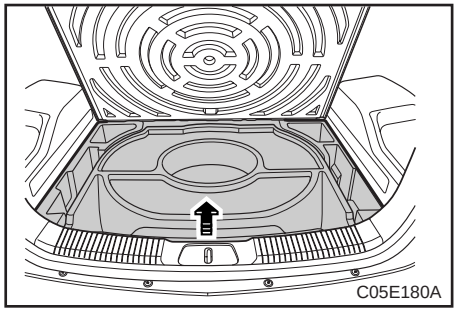
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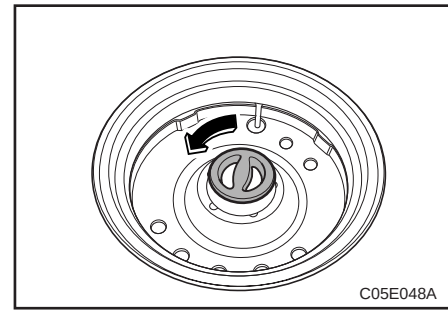
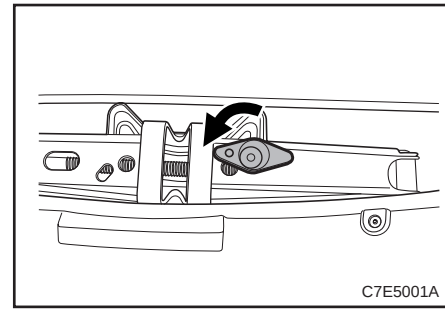
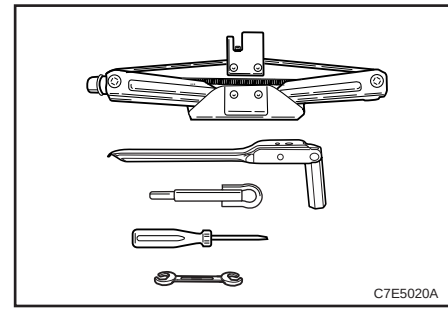
FLAT TYRE cont.

3. Remove the wing bolt from the spare wheel by turning it counterclockwise.
4. Remove the spare wheel.

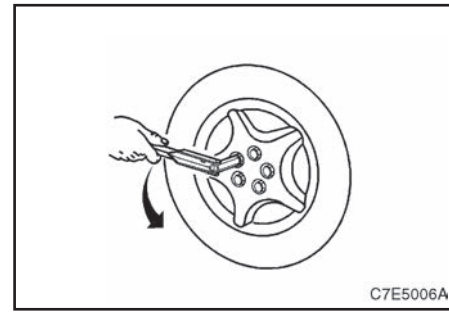


5. Remove the wing bolt from the jack by turning it counterclockwise.
6. Remove the jack.
7. Remove the straps holding the bag which contains the wheel wrench and remove the wheel wrench from the bag.





8. Use the wheel wrench to loosen the wheel nuts by one turn each.



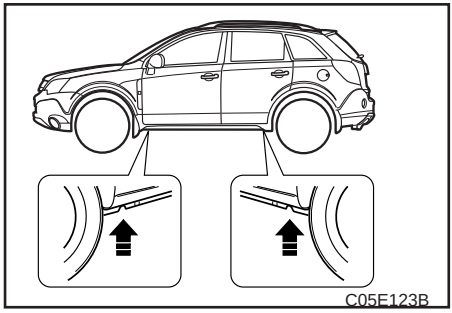
FLAT TYRE cont.

9. Place the jack under the jacking point nearest the wheel your want to change.

10. Attach the wheel wrench to the jack bolt head.

11. Turn the jack handle clockwise to raise the jack.

12. Raise the jack until the jack head fits firmly into the notch. Then raise the vehicle off the ground until there is room for the spare wheel to fit.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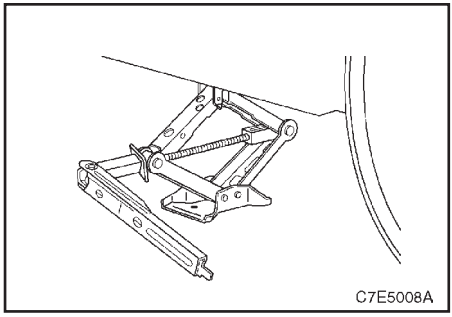
WARNING:

- **Failure to position the jack as described could cause the vehicle to slip off the jack.**
- **Do not get under a vehicle supported only by a jack, use vehicle support stands.**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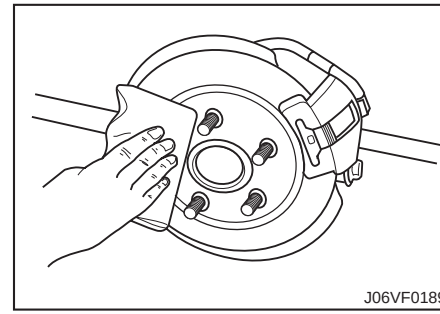
Note: Do not raise the vehicle off the ground more than necessary to change the wheel.

13. Remove the wheel nuts and take off the wheel.

FLAT TYRE cont.

14. Remove any dirt or rust from the wheel nuts and studs, mounting surfaces and spare wheel.
15. Place the spare wheel on the wheel mounting surface.
16. Install the wheel nuts and tighten by hand.
17. Turn the jack handle counterclockwise to lower the vehicle.
18. Tighten the nuts firmly with the wrench in the pattern shown. The proper torque is 125 Nm (Newton metres).
19. Store all the equipment in the proper storage area. To reduce rattling, stow the jack handle and tools securely in the correct storage compartment.
20. Store the wheel with the flat tyre in the luggage floor compartment. Have the flat tyre fixed or replaced as soon as you can in case you need to use it again.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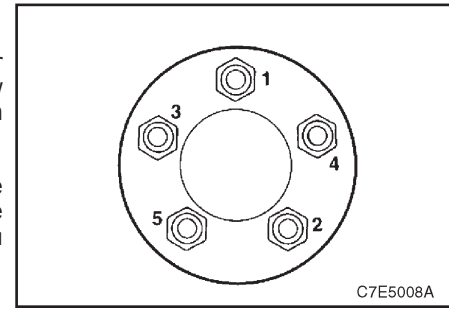

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WARNING:

- **The steel spare wheel is for temporary use only. The vehicle must not be driven at more than 80 km/h when this wheel is fitted.**
- **As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 125 Nm (Newton metres) evenly in the sequence shown. Wheel nuts which have not been properly tightened could eventually allow the wheel to come off while the vehicle is moving!**
- **Also have the new wheel balanced on the vehicle.**

TOWING YOUR DISABLED VEHICLE

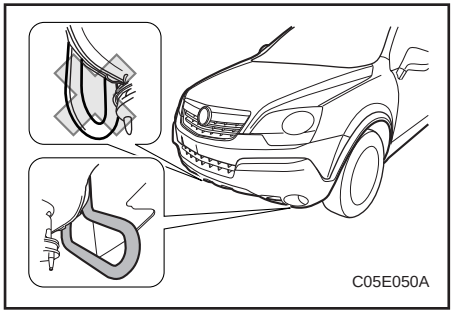
Emergency towing

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage. State and local laws must be followed. In an emergency, the vehicle may be towed on all four wheels for short distances only in the following manner:

1. Fit the towing equipment to the front towing eye located under the front bumper on the passengers side. Do not attach towing equipment to the bumpers or brackets, suspension or cross members.
2. Place the transmission in neutral (**N**) and release the park brake.
3. Turn the ignition key to the accessories (**ACC**) position. This frees the steering lock and allows the correct operation of windscreen wipers and turn signals.
4. For safety and to prevent damage to the vehicle, avoid jerky movements and drive slowly during towing operations.
5. Remember that power assist for brakes and power steering are not available when the engine is switched off. The brakes and steering still function, but require greater effort.
6. To prevent exhaust fumes from the towing vehicle entering the towed vehicle, close the windows and move heating and ventilation controls to the 'recirculate' position.
7. Vehicles fitted with automatic transmissions must not be towed for more than 55 km or over 55km/h.
8. Vehicles with damaged transmissions must not be towed.
9. Only the driver should be inside a towed vehicle.

Front towing eye

The front towing eye is provided under the front bumper. A driver must be in the vehicle to steer it and operate the brakes. Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, drive train, steering and brakes must be in good condition.



WARNING:

Do not use the front or rear tie-down hooks for towing.

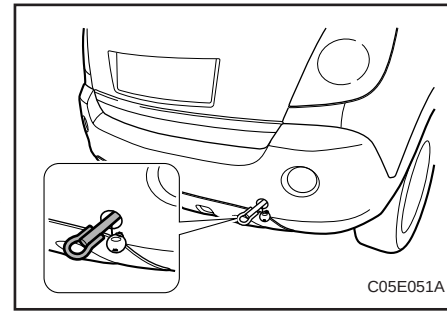
TOWING YOUR DISABLED VEHICLE cont.

Rear towing eye

When towing another vehicle, use the rear towing eye. It should be used only in an emergency situation.

To use the rear towing eye attachment, use the following procedure:

1. Locate the rear towing eye attachment in the compartment under the rear luggage area floor cover.
2. Open the cover plate on the bumper bar and screw the towing eye attachment firmly into place.
3. When using the rear towing eye attachment always apply force in a straight direction with respect to the towing eye. Do not apply force from any side direction.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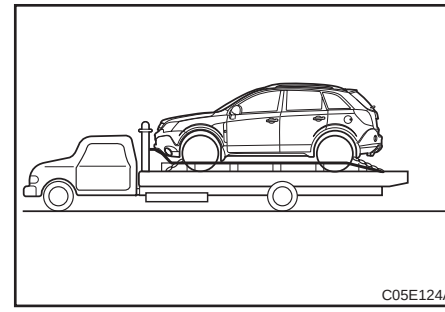
WARNING:

Do not use the front or rear tie-down hooks for towing.

Using a flat-bed tow truck

A flat-bed tow truck is the best method of towing the vehicle to avoid damage.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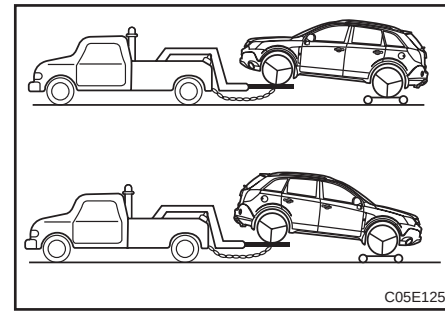
Using a standard tow truck

If a flat-bed tow truck is not available a standard tow truck using a towing dolly to prevent the front or rear wheels from contacting the road will be suitable.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WARNING:

If the vehicle is towed with the front or rear wheels contacting the road, the vehicles drive system could be severely damaged.

ENGINE OVERHEATING

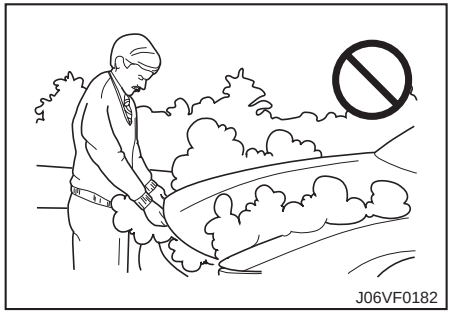
WARNING:

- **Immediate action is required if the engine overheats. This can be indicated by the temperature gauge needle moving to the red zone, by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.**
- **Continued driving even for a short time could result in a fire or vehicle damage.**

If the coolant temperature gauge needle should move to the **H** position and remain there for more than 30 seconds, pull over to the side of the road. Leave the engine idling while you step out of the vehicle to check if the cooling fan is working.

WARNING:

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.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WARNING:

Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

If the fan is working and the temperature gauge needle has not returned to its normal position within a few minutes, stop the engine and remove the ignition key.

Look for leaks from the radiator hoses and connections, heater hoses and connections, radiator and water pump and fan belt. Take care when checking all of these areas as they may still be hot.

If you find a major leak or other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the engine coolant level in the radiator reservoir tank, refer to Chapter 7, Weekly checks, for the location.

ENGINE OVERHEATING cont.

If you see or hear steam coming from the engine, stop and switch the engine off. Do not open the bonnet until the engine has cooled down.

If the temperature gauge is high with no sign of steam:

1. Pull over and stop the vehicle as soon as it is safe to do so.
2. Switch off your air conditioner.
3. Run the engine at idle speed for about 3 minutes.

The engine cooling fan should be running.

If the fan is not operating and steam is visible:

1. Switch off the engine.
2. Move away from the vehicle without opening the bonnet.
3. Let the engine cool down.
4. When steam is no longer visible, carefully open the bonnet.
5. Have the vehicle serviced as soon as possible.

If the fan is operating with no sign of steam:

1. Open the bonnet.
2. Let the engine idle until it is cool.
3. Check the coolant level.

If the fan is operating but the engine temperature does not fall:

1. Switch off the engine.
2. Open the bonnet.
3. Let the engine cool down.
4. Check the coolant level.

If the coolant level is low, there may be a leak in the cooling system:

Check for leaks in the following areas:

1. Radiator
2. Radiator hoses
3. Radiator connections
4. Heater hoses
5. Heater hose connections
6. Water pump.

WARNING:

Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

ENGINE OVERHEATING cont.

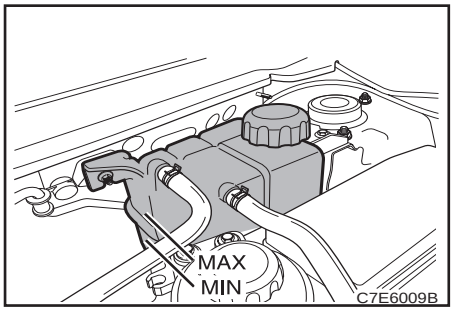
WARNING:

The cooling system is pressurised, so to avoid injury please read all of the following instructions before attempting to add coolant.

Without undoing the coolant reservoir cap, look at the level of the coolant in the see-through coolant reservoir.

When the engine is hot the level should be above the MIN mark.

If the level is at or below the MIN mark when the engine is hot, coolant will need to be added as follows:



- Allow the engine to cool a little.
- The coolant reservoir is pressurised, so cover the cap with a thick cloth. Remove the cap very slowly to allow any pressure to escape.
- If water is added it should be clean.
- Top up the coolant reservoir to the MAX mark while the engine is idling.
- Replace the coolant reservoir cap.

If after taking one or more of the above actions the temperature gauge no longer indicates an overheat condition you can resume driving at a reduced speed. Return to normal driving after 10 minutes if the temperature gauge does not again show an overheat condition. If overheating occurs again you should have the vehicle attended to, as soon as possible, by a Holden Dealer.

The engine may temporarily operate at high temperatures during demanding operating conditions, especially on hot days, including:

- Climbing a long hill.
- Stopping immediately after high speed driving.
- Idling for long periods in traffic.
- Towing a heavily laden trailer.

Note: It may help to switch off the air conditioner in these conditions.

Refer to Chapter 7, Weekly checks, for instructions to help protect your cooling system from overheating.

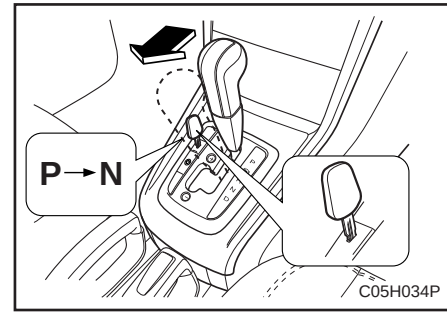
TRANSMISSION SHIFT LOCK CONTROL SYSTEM

Shift lock control system

Your vehicle has a Brake-Transmission Shift Interlock (BTSI) system. Before shifting from park (**P**), the ignition must be in the ACC or ON position and the brake pedal must be applied.

If the system does not respond to the above procedure and the shift lock can not be moved, use the following procedure:

1. Switch off the ignition and remove the key.
2. Apply and hold the brake pedal.
3. Remove the cap from the transmission shift lock slot.
4. Insert and press the ignition key into the transmission shift lock slot.
5. Shift the gear lever to **N** (neutral).
6. Remove the key from the slot.
7. Start the engine and shift the transmission into the desired position.
8. Reinstall the cap.
9. Refer to your Holden Dealer as soon as possible.



FLAT BATTERY

WARNING:

- **Do not push start or tow start your vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can jump start, but not push start your vehicle.**
- **To protect your vehicle's electrical system never disconnect the battery when the engine is running. Never charge the battery while it is still connected to the vehicle, first disconnect the negative cable, then the positive cable. The polarity of the battery, i.e. the connections for the positive and negative cables, must not be interchanged when reconnecting. First connect the positive cable, then the negative cable.**

If your vehicle does not start due to a discharged battery, it can often be started by using energy from another battery, a procedure called jump starting.

Please read the following procedure before attempting to jump start your vehicle.

However, if after reading the following procedure you are still unsure about jump starting we strongly recommend for your safety and to avoid damage to your vehicle that you seek the assistance of a suitably trained service technician.

Jump starting

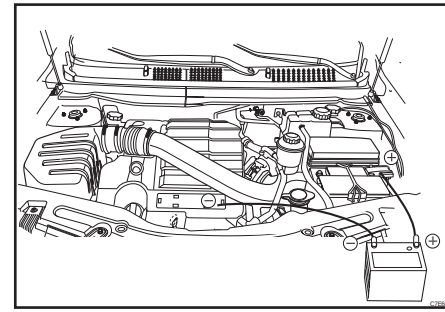
WARNING:
Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, adhere to the following when working near a battery:

- **Do not use open flames or sparks near the battery.**
- **Do not smoke near the battery.**
- **Wear eye protection such as safety glasses and avoid leaning over the battery.**
- **Battery acid is corrosive. If it gets on your skin, wash with plenty of water immediately. If it gets in your eyes you should not only flush with lots of water but should also seek medical help. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.**
- **Be sure any batteries that have filler caps are properly filled with fluid.**
- **Remove rings, metal watch bands and other metal jewellery before working around the battery.**
- **Never use a quick charger to start the engine.**
- **If you have a telephone fitted to the vehicle, you should remove the fuse for the telephone before jump starting. Remember to replace the fuse afterwards.**
- **To prevent damage to the audio system, switch it off before jump starting the vehicle.**

FLAT BATTERY cont.

Jump starting

1. The battery in your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle **must** also have a negative earth and a 12 volt rating.
2. Position the two vehicles so they are not touching, apply the park brakes, place the shift lever in the park (**P**) position. Turn the ignition switch to the **LOCK** position and switch off all the lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.
3. Attach one end of the red jumper lead to the positive terminal of the booster battery (identified by a red colour, **+** or **P**) and the other end of the red jumper lead to the positive terminal of the flat battery.



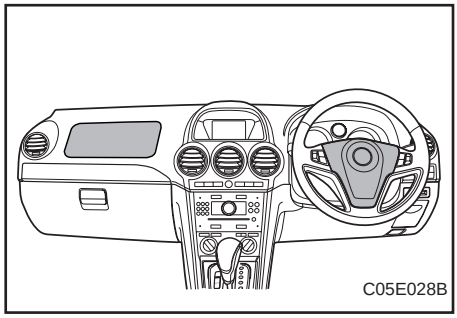
4. Attach one end of the black jumper lead to the negative terminal of the booster battery (identified by a black colour, **–** or **N**) and the other end of the black jumper lead to a solid stationary, metallic point on the engine of the vehicle with the flat battery.

   Note: Do not connect directly to the negative terminal of the battery, as this could cause sparks.
5. When making all connections ensure the jumper lead clamps do not touch each other. Also, ensure the jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.
6. Start the engine in the assisting vehicle and run the engine at a moderate speed. Then start the engine with the flat battery. Attempts to start the engine with the flat battery should be made at one minute intervals and should not last longer than 15 seconds.
7. After starting, allow both engines to idle for approximately 3 minutes with the leads still connected.
8. Leave the engine running while removing the jumper leads - in the exact reverse order they were installed. While removing each clamp, ensure it does not touch any other metal while the other end remains attached.

AIRBAGS

Front airbags

The driver's airbag is stored inside the steering wheel. AIRBAG is stamped on the steering wheel and a label is attached under the driver's side sunvisor.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WARNING:

- **The horn pad must not be covered with adhesive or any other material.**
- **The driver should adjust the seat as far rearward as possible while still maintaining control of the vehicle.**

The front passenger's airbag is stored in the dash panel. The wording AIRBAG above the glovebox and a label attached under the sunvisor indicates that a passenger airbag is fitted.

WARNING:

- **Do not place any objects on or over the dashboard or between an airbag and yourself.**
- **Do not hang anything from the sunvisor or mirror.**
- **Passengers must not rest their feet on the dashboard.**

Front airbags will inflate in certain severe frontal or near frontal impacts. Front airbags are not designed to inflate if the vehicle is struck from the side, rear or in rollovers. Always wear a seat belt.

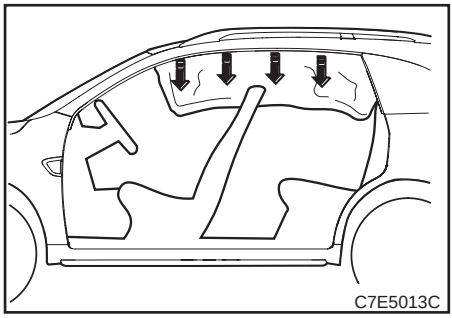
Side curtain airbag operation

Note: Curtain airbags do not protect the third row seat passengers.

If the vehicle is fitted with curtain airbags there will be labels on the vehicle where the airbags are located.

Curtain airbags are stored in the roof area, just above the front and rear doors. The curtain airbag only deploys on the side of the vehicle that is struck.

Curtain airbags will deploy in certain severe side impacts to the passenger area.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AIRBAGS cont.

Note:

- A curtain airbag will deploy and offer protection in most, but not all, severe side impacts. Because of the limited time available to detect some side impacts, it is not possible to deploy a curtain airbag in all serious accidents (for example, some pole impacts).
- A curtain airbag will inflate in certain severe side impacts. Curtain airbags are not designed to inflate if the vehicle is struck from the front, rear or in rollovers. Always wear a seat belt.
- If the vehicle is fitted with curtain airbags there will be labels on both door lock pillars.

WARNING:

- **Do not position your body or any object (including pillows) in the area in which the airbag inflates.**
- **There must be no objects in the area in which the airbag inflates.**
- **Use the hooks above the doors only to hang up light articles of clothing.**
- **Do not place any objects in the pockets of the hanging items.**
- **Do not hold onto the assist grips (above the doors) while seated in the vehicle.**
- **Always wear your seat belt.**
- **Do not lean on, or sleep against the front or rear doors. Always sit centrally in the seat.**
- **Airbags are part of the 'Supplemental Restraint System' (SRS) as they assist, but do not replace seat belts. Airbags do not deploy in every accident. Various factors dictate whether they deploy including speed, angle of collision and object hit. Airbags are not designed to inflate in all collisions. Seat belts must be worn by all passengers whenever the vehicle is moving.**
- **Airbags inflate with great force, if you are too close to an inflating airbag it may cause injury. Seat belts help keep you in position for airbag inflation in the event of a collision.**

The system should also be inspected by a Holden Dealer if:

- The steering wheel or dashboard area is scratched, cracked or damaged;
- If curtain airbags are fitted and the head lining side panels are damaged.

Note: Extensive design and testing has gone into the airbag system. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental deployment. It is recommended that any work to the electrical system, steering column, dashboard area, steering wheel or airbag system be carried out by a Holden Dealer.

AIRBAGS cont.

Roo/nudge bar

If a roo/nudge bar is to be fitted, it is critical the Holden approved roo/nudge bar be used.

Refer to Chapter 4, Driving, for further information.

Passenger airbag and child restraints

WARNING – EXTREME HAZARD:

- **Do NOT use a rearward facing child restraint on a seat protected by an airbag in front of it.**
  The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.
- **Remember that it is safer for children to be seated in the rear seats.**

Refer to Child restraints in Chapter 3, Know your vehicle, for further information about fitting a child restraint.

Do not touch any airbag system components or wires.

The wires can be identified by yellow tape wrapping or yellow tubing and the connectors are also yellow.

Scrapping a vehicle that has an uninflated airbag can be hazardous. Ask your Holden Dealer for assistance.

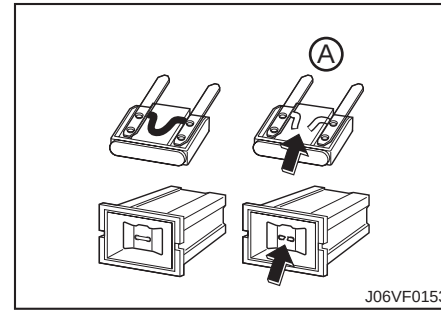
FUSES

Fuse boxes

There are two fuse boxes; one is on the left-hand side of the driver's side foot well, and the other is located toward the rear of the engine compartment next to the coolant reservoir.

Spare fuses and a fuse extractor are located in the engine compartment fuse box.

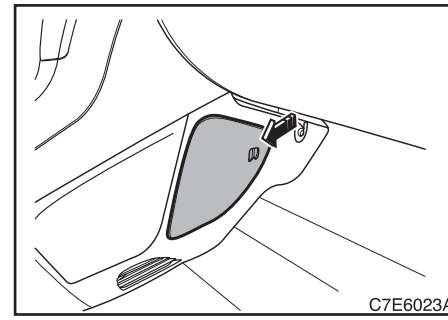
To determine whether or not a fuse is blown, it is necessary to pull out the suspect fuse and examine the wire in the fuse. A blown fuse can be recognised by its melted wire. If a fuse blows twice in a row a fault is indicated. The cause should be located and rectified by a Holden Dealer.



Foot well fuses

To open the fuse cover on the left-hand side of the drivers foot well, open the driver's side door, pull the top of the cover outward.

Always ensure the cover is in place after use. The fuse amperage and designation is shown on the inside of the fuse cover.



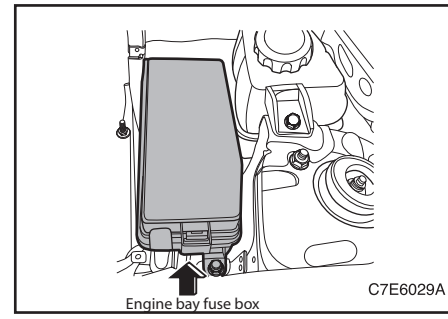
Fuse box in engine compartment

This fuse box is located on the passenger side of the engine compartment, it contains circuit fuses, main fuses and relays.

To remove the cover, press the catch on the side of the fuse box toward the engine and release the two tabs at the opposite side.

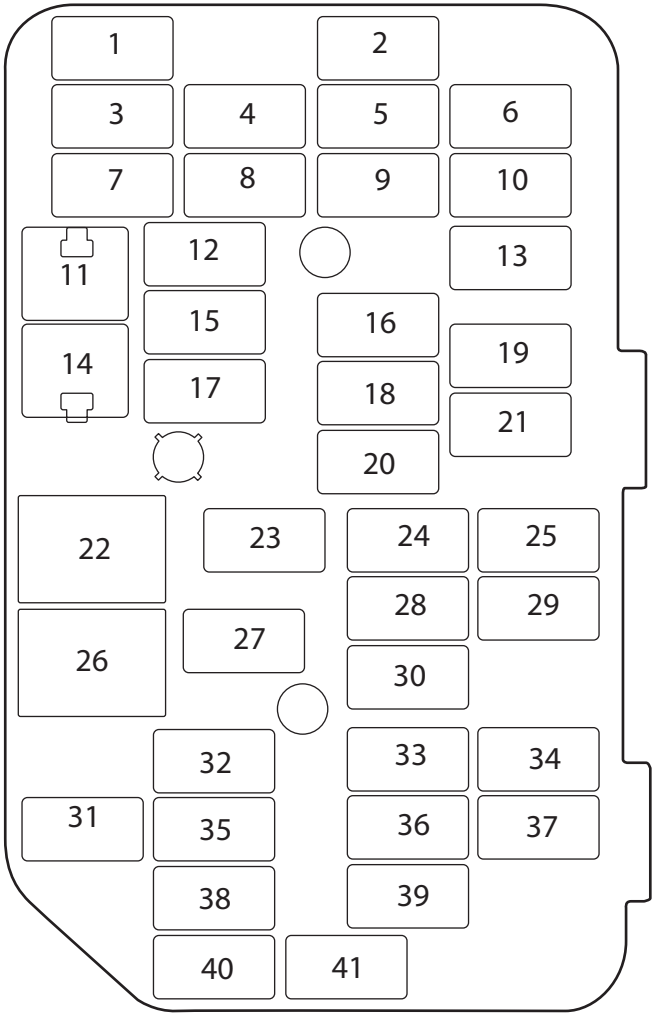
Always ensure the cover is correctly fitted after replacing or inspecting fuses.

The fuses amperage are shown on the inside of the fuse cover.



FUSES cont.

Driver foot well fuse panel



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FUSES cont.

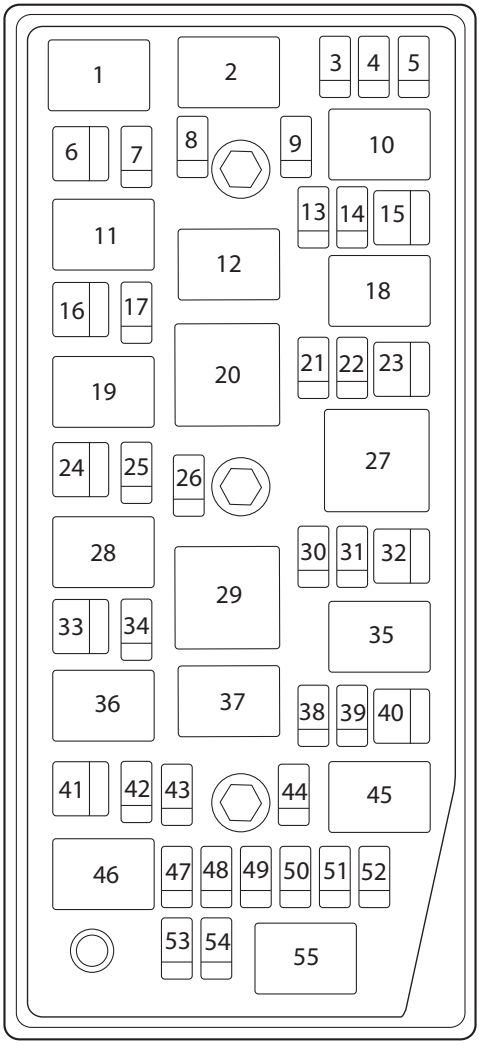
No	Allocation	AMP's	No	Allocation	AMP's
1	Front mirror ✻	10A	**22**	Relay ACC/RAP	
2	Door Lock	20A	**23**	Lift glass ✻	10A
3	Nav	10A	**24**	Airconditioning	15A
4	Front door lock	15A	**25**	Airconditioning	10A
5	BCM (VB6)	15A	**26**	Relay run/crank	
6	AP01	20A	**27**	OSRVM HT	15A
7	Cigar	20A	**28**	BCM (VB2)	20A
8	AP02	20A	**29**	SSPS ✻	10A
9	BCM (VB3)	15A	**30**	BCM (VB7)	15A
10	Heat/Mat ✻	20A	**31**	Clock	10A
11	Passenger power window	20A	**32**	Instrument cluster	10A
12	TCM ✻	15A	**33**	Ignition switch	2A
13	Audio	15A	**34**	BCM (VB1)	10A
14	Driver's power window	20A	**35**	Ignition 1	10A
15	Engine	15A	**36**	Rear fog ✻	10A
16	BCM (VB4)	15A	**37**	CTD Horn ✻	10A
17	XBCM ✻	10A	**38**	Air bag	10A
18	BCM (VB5)	15A	**39**	Air bag	10A
19	Trailer ✻	10A	**40**	WHL S/W ✻	2A
20	RR CLS	10A	**41**	Front washer	10A
21	PKLP-RH	10A			

FUSES cont.

Engine compartment

Relays

Relays are also contained in this fuse box; their location in the fuse box and their function is indicated on the inside of the fuse box cover.



FUSES cont.

No	Allocation	AMP	No	Allocation	AMP
1	Starter relay		**29**	Run relay	
2	Main relay		**30**	Anti theft	15A
3	ECM	20A	**31**	Sun roof	20A
4	Engine 2	15A	**32**	Accessory/Ignition	40A
5	Engine 1	15A	**33**	Battery	60A
6	Starter	20A	**34**	Power seat	30A
7	Main	10A	**35**	Defog relay	
8	A/C compressor	10A	**36**	Front defog relay	
9	Engine 3	15A	**37**	Park lamp relay	
10	Auxiliary fan relay		**38**	H/light Low RH	15A
11	A/C compressor relay		**39**	H/light Low LH	15A
12	Main fan relay		**40**	Defog	30A
13	AWD	15A	**41**	Rear wiper	20A
14	Fuel	15A	**42**	H/light High	15A
15	Main fan	30A	**43**	Front fog	15A
16	ABS	40A	**44**	Park lamp LH	10A
17	ABS	20A	**45**	H/light Low relay	
18	Fuel relay		**46**	H/light High relay	
19	Horn relay		**47**	Spare	20A
20	Fan control relay		**48**	Spare	25A
21	Spare	20A	**49**	Park lamp RH	10A
22	Stop	15A	**50**	TCM	15A
23	Auxiliary fan	30A	**51**	H/light washer	20A
24	Run	40A	**52**	Spare	
25	Wiper	25A	**53**	Spare	10A
26	Horn	15A	**54**	Spare	15A
27	Wiper speed relay		**55**	H/light washer relay	
28	Wiper relay				

WARNING:

When replacing a fuse, ensure the replacement fuse is of the specified amperage. Never install a wire or similar as it could damage electrical components and cause a fire.

BULB REPLACEMENT

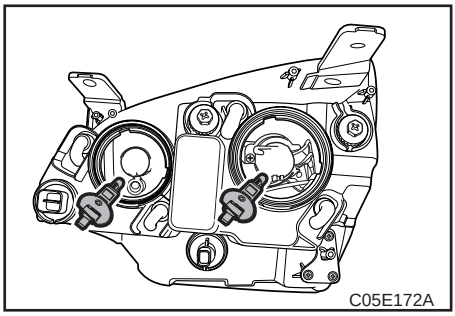
When replacing a bulb, switch off the related light switch.

Do not touch new bulbs with bare hands. Greasy fingers cause stains, which evaporate, and result in a dull light. Grease spots on Halogen bulbs will, within a short time, lead to bulb failure. Inadvertently stained bulbs may be cleaned with tissue paper, or a clean, non-fuzzy cloth, using alcohol or methylated spirits.

When replacing bulbs do not exceed the wattage given on the defective bulb base.

Detailed procedures for headlight aiming are given in the relevant service manual for your vehicle. However, because headlamp aiming is a safety item it is recommended that you have it carried out by your Holden Dealer.

Head lamps (55 W)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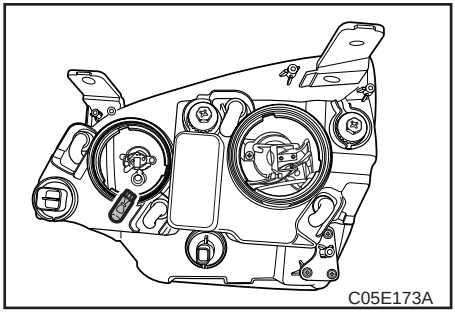
1. Open the bonnet.
2. Remove the scrivets from the upper radiator cover and remove.
3. Remove the bolts securing the headlamp assembly and carefully remove the head lamp.
4. Disconnect the headlight connectors.
4. Remove the cap covering the head lamp bulb.
5. Release the spring retaining the bulb.
6. Remove the bulb and replace.
7. Reverse the steps to reinstall the head lamp assembly.

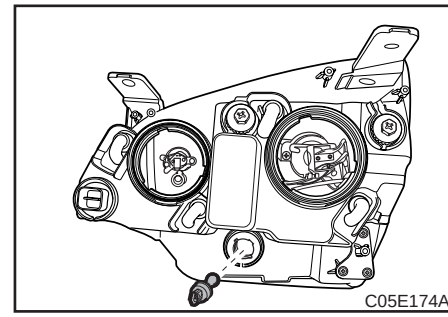
Parking lamps (5 W)


C05E173A

1. Open the bonnet.
2. Remove the head lamp assembly, refer to Head lamps in this section.
3. Remove the cap covering the parking lamp bulb.
4. Pull out the parking lamp bulb assembly located next to the head lamp bulb.
5. Pull the bulb straight out of the bulb holder.
6. Reverse the steps to reinstall the head lamp assembly.

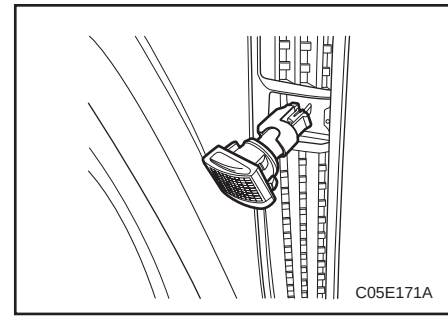
BULB REPLACEMENT cont.

Front turn signal lamps (21W)



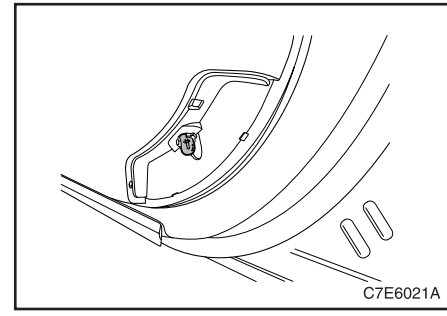
1. Open the bonnet.
2. Remove the head lamp assembly, refer to Head lamps in this section.
3. Rotate the front turn signal bulb holder counterclockwise and pull it out of the lamp housing.
4. Press the bulb inward and rotate it counterclockwise to remove it from the bulb holder.
5. Install a new bulb into the holder by pressing it in and rotating it clockwise.
6. Install the holder into the lamp housing by rotating it clockwise.
7. Reverse the steps to reinstall the head lamp assembly.

Side turn signal lamps (5 W)



1. Using a flat blade screwdriver, carefully pry the side turn signal lamp assembly away from the fender.
2. Rotate the bulb holder counterclockwise.
3. Remove the bulb from the lamp housing by pulling the bulb straight out of the holder.
4. Push the replacement bulb into the bulb holder and rotate the bulb clockwise.
5. Push the side turn signal lamp assembly back into its original position ensuring it is securely fastened.

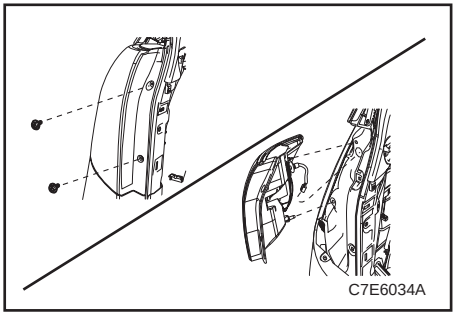
Front door step lamp (5 W)



1. Using a flat blade screwdriver, carefully pry the lamp lens away from the front door trim.
2. Pull the bulb straight out of the bulb holder and install the replacement bulb.
3. Refit the lamp lens ensuring it is securely fastened.

BULB REPLACEMENT cont.

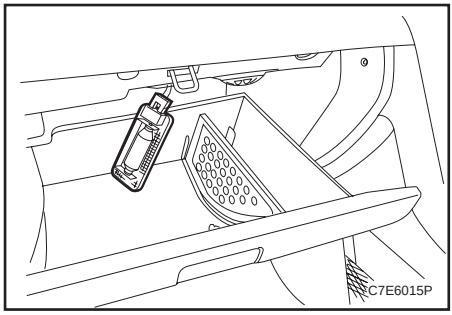
Rear tail lamps



1. Open the tailgate.
2. Remove the two screws and the lamp assembly.
3. Remove the bulb holder by rotating it counterclockwise.
4. Push the bulb inward and rotate it counterclockwise.
5. Insert the replacement bulb into the holder and rotate it clockwise.
6. Replace the bulb holder into the lamp housing and rotate it clockwise to secure.
7. Refit the lamp assembly into the vehicle securing with the two screws.

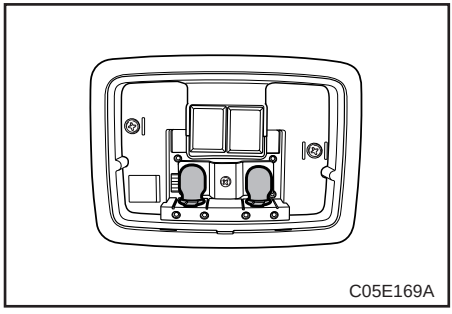
- **Reverse (16 W)**
- **Tail (5 W)**
- **Brake (21 W)**
- **Rear turn signal (21 W)**

Glove box lamp (10 W)



1. Open the glove box.
2. Using a flat blade screwdriver, carefully unclip the lamp assembly away from the top of the glove box.
3. Remove the bulb and install the replacement.
4. Refit the lamp assembly.

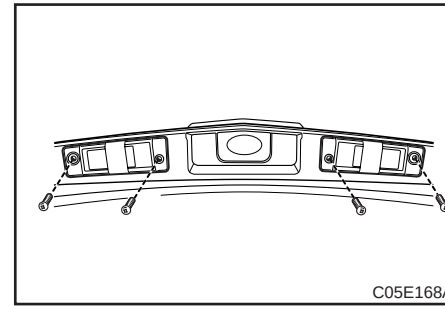
Interior and map lamps (10 W)



1. Using a flat blade screwdriver, carefully pry the lamp lens away from the housing.
2. Remove the bulb and install the replacement.
3. Refit the lamp lens.

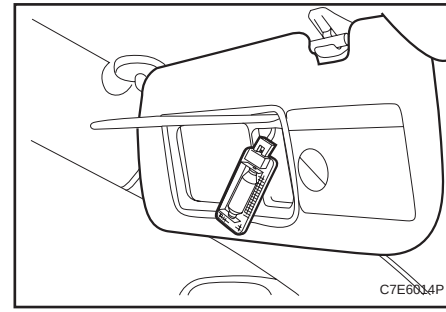
BULB REPLACEMENT cont.

Licence plate lamps (5 W)



1. Remove the two screws and the lamp lens.
2. Rotate the bulb holder counterclockwise and remove it from the housing.
3. Pull the bulb straight out of the bulb holder and install the replacement bulb.
4. Rotate the bulb holder clockwise to reinstall it into the lamp housing.
5. Refit the lamp lens, securing with the two screws.

Vanity mirror lamp



1. Using a flat blade screwdriver, carefully unclip the lamp assembly away from the vanity mirror housing.
2. Remove the bulb and install the replacement.
3. Refit the lamp assembly.

Note: The front fog lamps and the high mount stop lamp are not serviceable, if they fail to illuminate see your Holden Dealer.

Notes

CHAPTER 7

Weekly checks

Page

7-2 Miscellaneous checks

7-3 Check locations

7-4 Engine coolant level

7-5 Engine oil level

7-6 Engine oil consumption

7-7 Automatic transmission fluid level

7-8 Brake fluid level

7-9 Power steering and washer fluid levels

7-10 Tyres

7-13 Battery

❇ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

MISCELLANEOUS CHECKS

As well as taking your vehicle to be serviced (refer to the Servicing Handbook) there are a few simple, weekly checks the owner (or nominee) is recommended to make. These are shown on the following pages.

WARNING:

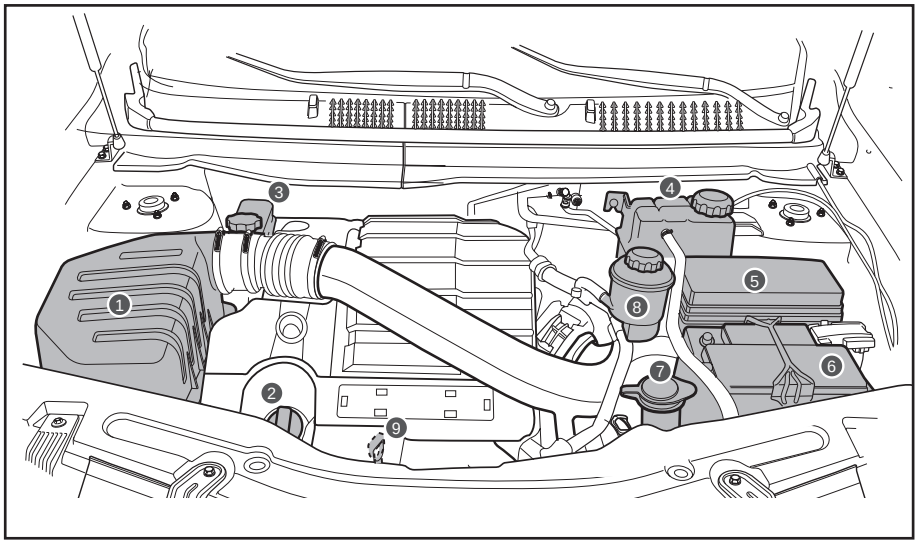
- **The engine cooling fan can start working unexpectedly, even when the engine is not running. To avoid injury from the fan, ensure the ignition switch is in the LOCK position, so the fan can not start operating.**
- **Electronic ignition systems have high ignition voltage. Do not touch the ignition system; this could be highly dangerous.**

The following checks should also be regularly done to ensure the safe operation of your vehicle:

- All exterior lights are working and their appropriate interior indicators illuminate.
- Mirrors and glass are clean and not scratched.
- Aim of water on the windshield is satisfactory.
- Condition of the wipers is satisfactory.
- The demister operates.
- The horn works.
- Condition and operation of all the seat belts. Check if the buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

CHECK LOCATIONS

3.2 DOHC HFV6



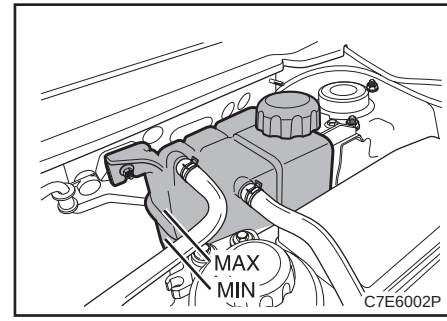
1. Air cleaner
2. Engine oil filler cap
3. Brake fluid reservoir
4. Coolant reservoir
5. Fuse and relay box
6. Battery
7. Washer fluid reservoir
8. Power steering fluid reservoir
9. Engine oil level dipstick

ENGINE COOLANT LEVEL

To check engine coolant level

The level of the coolant should be checked weekly. This is simply a matter of looking at the level in the plastic container, called the coolant reservoir.

Check the level of the coolant and replenish the coolant reservoir as necessary. When the engine is cool, if the level of coolant in the reservoir is found to be lower than the MIN line, check the cooling system for leaks, then replenish to bring the level up to the MAX line.



WARNING:

- **Do not over fill the coolant reservoir.**
- **Only use specified coolant, refer to Chapter 8, Specifications. Do not mix different coolants as this may damage the engine cooling system.**
- **Remove the coolant reservoir filler cap only.**
- **Always check the coolant level when the engine is cold. Steam and scalding liquids from a hot cooling system can blow out and cause serious burns.**

To add engine coolant

If the coolant reservoir requires topping up, first pre-mix a solution of 50% coolant (refer to Chapter 8, Specifications) and 50% water.

Ensure the ignition is switched off.

Undo the cap on the top of the coolant reservoir, add the pre-mixed solution and secure the cap.

Failure to use the coolant meeting Holden's specification or maintaining the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily until the correct coolant is obtained as soon as possible from the nearest Holden Dealer.

The specified coolant works in three ways: it contains special corrosion inhibitors, it helps the cooling system in hot weather by increasing the boiling point and it protects against freezing down to -30°C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system you should contact your Holden Dealer.

WARNING:

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.

If the engine overheats, refer to Chapter 6, Emergencies.

ENGINE OIL LEVEL

Engine oil must be kept at correct levels to help ensure proper lubrication of the vehicle's engine. Check the oil level at regular intervals, such as when refuelling. If the oil pressure warning light comes on, you must check the oil level immediately, or risk causing damage to the engine. See "Warning lamps" in Chapter 1, Dashboard.

Check the engine oil level

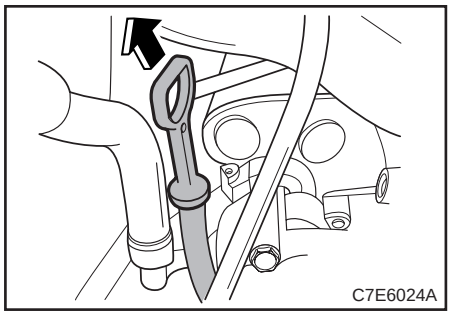
Check the oil level while the vehicle is parked on level ground, with the engine switched off and at normal operating temperature.

Before checking the oil level, wait a few minutes after switching the engine off, to allow the oil to settle.

1. Remove the oil dipstick from the oil level tube.
2. Wipe the dipstick clean.
3. Insert the dipstick back into the oil tube as far as it will go.
4. Wait for a few seconds before again removing the dipstick.

The oil level should be maintained between the marks, neither going above the upper mark nor under the lower mark.

Note: Remember to insert the dipstick firmly after taking the reading.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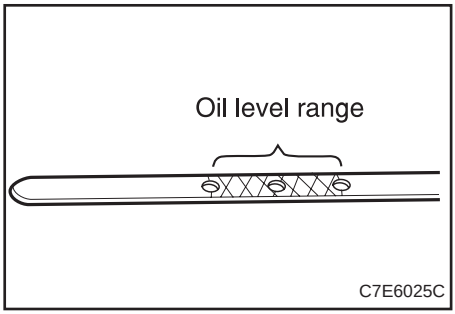

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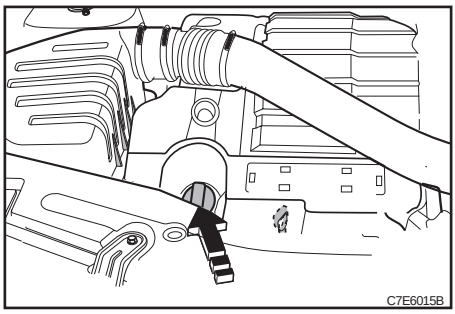
To add engine oil

Use the correct oil for your vehicle. Refer to Chapter 8, Specifications.

1. Remove the engine oil cap.
2. Add the required amount of oil.
3. Wait a few minutes for the oil to settle, then check the oil level again. When the oil level is correct, replace the oil cap and dipstick, and clean up any spilt oil.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Note: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use will increase costs, may be detrimental to the operation of your car and may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of your vehicle.

ENGINE OIL CONSUMPTION

Every internal combustion engine uses a certain amount of oil, especially when running-in. The engine is dependant on oil for lubricating the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine:

- Worn pistons, rings, valve stems and guides
- The way in which the vehicle is operated
- The quality and grade of oil
- The oil level, and dilution of the oil.

Operation of the vehicle

High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

Quality and grade of oil

Oil viscosity is a significant factor in oil consumption. If you use an oil which is too thin (low viscosity) your oil consumption will increase. Use only the recommended grades of oil, refer to Chapter 8, Specifications.

Oil level

Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full engine will splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

Dilution

Probably the most prevalent complaint of oil consumption comes from the driver whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the full mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil lost has been consumed in the highway operation.

If, after taking into account the above factors, you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden dealer. Remember that an engine's oil consumption should not be judged until it has run at least 10,000 km.

AUTOMATIC TRANSMISSION FLUID LEVEL

Automatic transmission fluid level check

The fluid level for automatic transmission will be checked for you when your vehicle is taken to your Holden Dealer for servicing, refer to the Servicing Handbook.

Note: The automatic transmission fluid level does not require checking by the driver in between these scheduled services.

BRAKE FLUID LEVEL

WARNING:

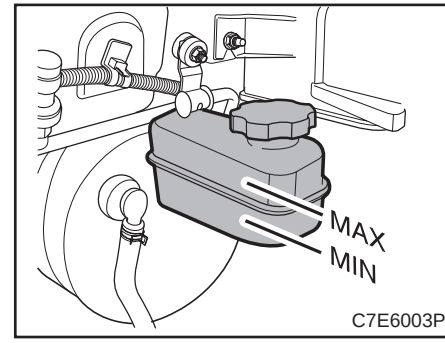
- **Do not let brake fluid contact your skin or eyes. If you do get it in your eyes or on your skin, wash the affected skin thoroughly with soap and water, or flush eyes immediately with water and seek medical attention.**
- **Do not spill brake fluid on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.**

The fluid should be kept at the proper level between the MIN and MAX lines on the reservoir.

If the brake fluid level is low, the brake system warning light comes on. See "Brake system warning light" in Chapter 1, Dashboard.

Brake fluid reservoir

Note: If your reservoir requires constant topping up it could indicate that a fault exists. Contact your Holden Dealer immediately.



POWER STEERING AND WASHER FLUID LEVELS

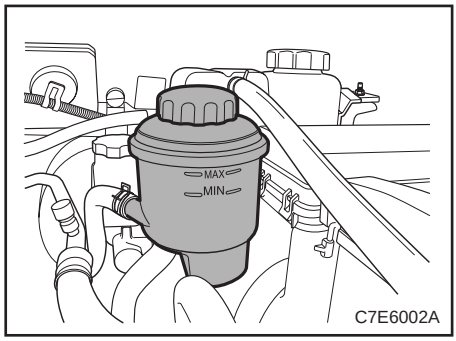
Note: Driving your vehicle without the proper amount of power steering fluid can result in system damage requiring costly repair.

Power steering fluid level

The power steering fluid level should be checked with the ignition switched off.

Check the fluid in the reservoir. The level should be between the MIN and MAX marks.

If the fluid is below the MIN mark, you should add fluid.



To add power steering fluid, do the following:

1. Switch off the ignition.
2. Wipe the cap and the top of the reservoir clean.
3. Remove the cap.
4. Add only enough fluid to bring the level up to the MAX mark. Do not overfill.
5. Replace the cap tightly.
6. Clean up any spilt fluid.

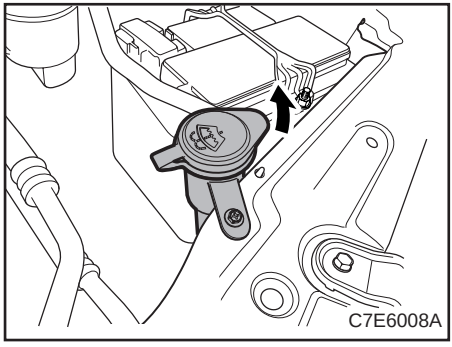
Refer to Chapter 8 Specifications, for power steering fluid specifications. If you often need to add fluid, you should see your Holden Dealer.

Washer fluid level

As washer fluid is regularly used, the level in the washer fluid reservoir should be checked and topped up weekly.

For a crystal clear windshield, use the correct amount of Holden Optikleen. Do not use ordinary soap or detergent as these not only froth up but would also damage the wiper rubbers.

Ensure the cap is secured.



TYRES

Tyre air pressure

Weekly checking of the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres. See the tyre placard located on the pillar below the drivers door latch, for the recommended tyre pressures.

For constant long distance or rough road driving, daily checking is recommended.

If the vehicle is heavily loaded, the recommended pressure for the tyres is increased. As the tyres are operating under greater load, the weekly air pressure check becomes even more important.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. Therefore, the pressure should be checked when the tyres have been stationary for over three hours. If they must be checked immediately after driving, increase the pressure shown on the placard by 10% relative to the cold tyre inflation pressure.

The inflation pressure in the tyres should be increased according to the load on the vehicle. Therefore, if the vehicle is loaded to half the maximum payload (as shown in Chapter 10, Cleaning) then the tyres should be inflated half way between the minimum and maximum pressures given on the tyre placard. Vehicles driven for prolonged periods over rough roads, particularly in outback conditions, should use the cold tyre inflation pressure on the tyre placard for maximum load condition.

Always use a tyre pressure gauge to check the tyres inflation; simply looking at the tyres is not sufficient.

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blowout at high speeds. If the pressure is too high, this can result in reduced traction, increased risk of tyre blowout and poor tyre wear.

Remember to replace any valve dust caps or extensions, as this stops dirt and moisture from fouling the valves. When checking the tyre air pressure, take a look at the condition of the tyre tread and inspect for stones or abnormal wear.

Tyre condition and rim condition

Driving over sharp edges can lead to hidden tyre damage and rim damage, which can lead to tyre blowout, drive over edges slowly and at right angles if possible.

When parking, ensure the tyres are not pressed against the edge of the curb.

Check the tyres regularly for: damage, stones, punctures, cuts, cracks, bulges etc. Check the rims for damage. Consult a Holden Dealer, if in doubt.

TYRES cont.

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to pull to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear. If you suspect either of the above problems exist, have a wheel alignment and balance check carried out by your Holden Dealer.

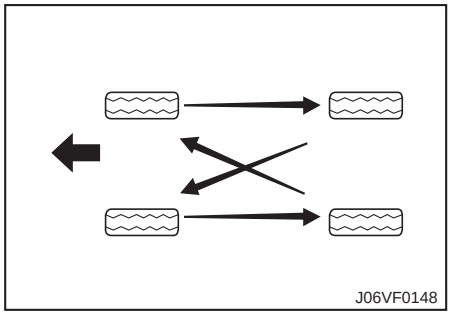
Tyre rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment, balance, tyre pressures, etc.

Check the tread depth regularly. If the front tyres have more wear than the rear tyres, have both front wheels rotated with the rear wheels so the tyres with the deeper tread are at the front.

Follow the diagram for the correct rotation pattern.

If the wheels are rotated it is recommended to check the balance at the same time.



TYRES cont.

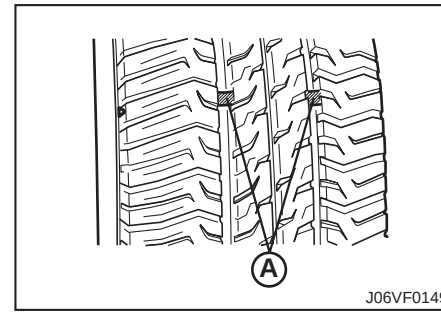
Replacement and repair

Replacing your factory fitted wheels and tyres with non standard wheels and tyres may affect your new vehicle warranty as well as your insurance policy. Refer tyre placard for tyre size and load rating. Using a different size or type of tyre may affect ride, handling, speedometer, vehicle ground clearance, tyre clearance or snow chain clearance.

Take care when using tyres with heavy treads, including tyres made for better grip in the wet. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer. Any doubts about the tyres on your vehicle should be referred to your Holden Dealer.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

The tyres have tread wear indicators (A) which tell you when a tyre has 1.5mm or less of tread left.



You should replace your tyres when:

- The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing. The tyres originally fitted to your vehicle have built-in tread indicators which show up when the tyres are worn.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can not be repaired because of the size or location of the damage.

Do not attempt to drive on the flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded can not be driven safely at high speeds. Therefore, their use is not recommended.

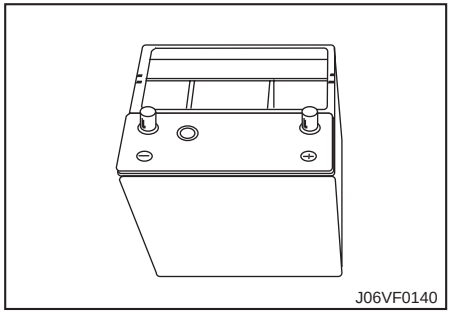
BATTERY

Battery maintenance

Your vehicle is fitted with a maintenance free battery, which means the fluid level does not need to be checked.

To extend the life of your battery, do the following:

- Keep the battery mounted securely.
- Keep the top of the battery dry and clean.
- Keep the terminals and connections clean, tight and coated with petroleum jelly or terminal grease.
- Immediately rinse off any spilled electrolyte using a solution of water and baking soda.
- If the vehicle is not going to be driven for an extended period of time, disconnect the cable from the negative (-) terminal of the battery to prevent discharge, and charge the battery every six weeks.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WARNING:

- **Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.**
- **Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and seek medical assistance immediately.**
- **Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.**
- **Take care with all metal objects and tools including items you may wear (e.g.: jewellery, ring and metal watch bands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.**
- **Never disconnect the battery when the engine is running.**
- **Always connect the red cable to the positive (+) battery terminal and the black cable to the negative (-) battery terminal. Connecting the battery cables to the wrong terminals can result in injury and damage to the vehicle.**
- **Wear eye protection such as safety glasses and avoid leaning over the battery.**

CHAPTER 8

Specifications

Page

8-2 Specifications

8-4 Identification labels

✻ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

SPECIFICATIONS

Engine Type	**3.2 Litre DOHC V6**
Piston displacement	3195 cc
Compression ratio	10.3 : 1
Bore	89 mm
Stroke	85.6 mm
Power kW@ rpm	Refer to: holden.com.au
Torque Nm@ rpm	Refer to: holden.com.au
Oil specification	SAE 5W/30 or SAE 10W/30 API SL/SM ILSAC GF3 / GF4 oil
Refill oil capacity (including filter)	7.4 Litres
Fuel tank capacity	65 Litres
Coolant capacity	10.0 Litres
Coolant specification	50% Clean water and 50% Dexcool anti-freeze coolant, conforming to specification number GM 6277M
Brake fluid	DOT-4 brake fluid
Power steering fluid	Dexron® III
Battery specification	12 volts, 70 amp hours
Battery for remote control	CR 16 20

SPECIFICATIONS cont.

Transmission

Transmission	**5 speed automatic transmission**
Transmission fluid type	Esso JWS 3309 or conforming to Holden specification number HN2414

Drivetrain

Rear differential	Synthetic Hypoid 75W/90 GL5
Power transfer unit	Synthetic Hypoid 75W/90 GL5

Dimensions

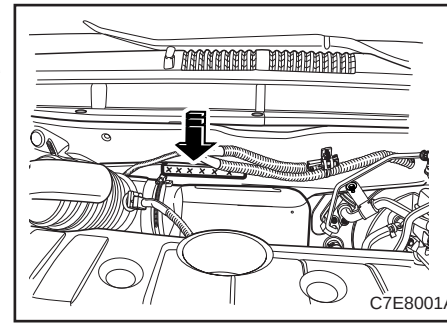
Overall length		4,637 mm
Overall width (excluding mirrors)		1,849 mm
Overall height, at kerb weight		1,720 mm
Track	Front	1,562 mm
	Rear	1,572 mm
Wheel base	2,707 mm	

IDENTIFICATION LABELS

Vehicle identification number (VIN)

This is the legal identifier for your vehicle, and is used for the identification of spare parts.

The vehicle identification plate is located inside the engine bay, on the bulkhead.



Breakdown of vehicle identification number

The vehicle identification number is broken down the following way:

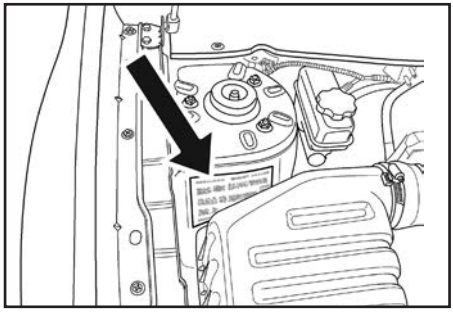
Typical VIN	K	L	3	D	D	2	6	G	J	6	B	–	–	–	–	–	–
Position No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Position No	VIN Description	Reference Code				
1~3	Manufacturer identifier	K – Asia L – Korea 3 – Holden				
4	Car line	C – Captiva D – Captiva MaXX				
5	Transmission	G – AWD (All wheel drive) Manual transmission D – AWD (All wheel drive) Automatic transmission				
6~7	Body style	26 – All purpose window-4door (Liftgate)				
8	Engine type	Code	Displacement	Eng option	Fuel sys	Cyl
		G	3.2L	DOHC	MPFI	HF V6
9	Purpose	E – Export J – Euro 2005				
10	Model year	6 – 2006, 7 – 2007, 8 – 2008, 9 – 2009, A – 2010				
11	Plant location	B – Bupyung K – Kansun				
12~17	Production sequence number					

IDENTIFICATION LABELS cont.

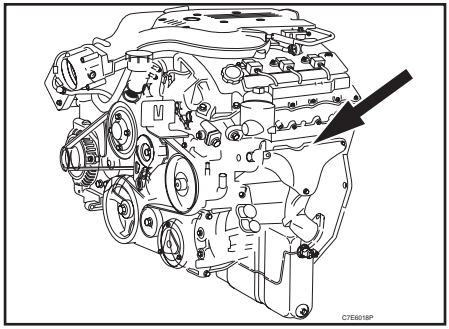
Compliance label

The compliance label is located in the engine bay at the front of the driver's side suspension tower.



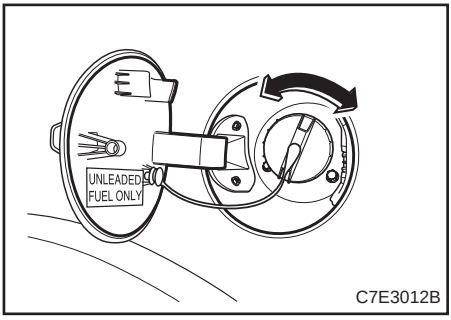
Engine number

Individual identification numbers are stamped onto the engine block under the centre branch of the exhaust manifold.



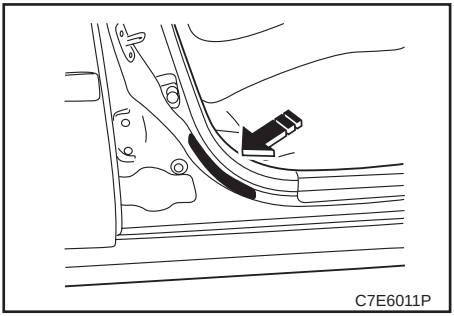
Fuel label

The fuel label is located on the inside of the fuel filler door.



Tyre label

The tyre placard is found on the lower part of the 'B' pillar on the driver's side.



CHAPTER 9

Tow and Load

Page

9-2 Loading the vehicle

9-4 Towing

9-6 Towing precautions

✻ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

LOADING THE VEHICLE

Maximum vehicle payloads

Overloading is a safety hazard and could also shorten the life of your vehicle. The typical recommended carrying capacity of the vehicle is shown in the table below.

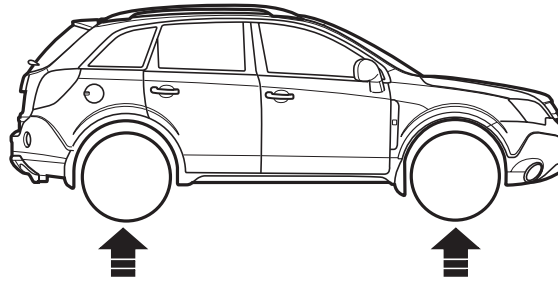
Do not exceed the maximum axle loads shown below in the diagram, including the weight of any options or accessories fitted to the vehicle.

Remember to take the roof rails load into account when determining the rear axle load.

If unsure, the vehicle should be weighed at a weighbridge.

Occupants (at an average of 68kg each)	Luggage (kg)	Total load (kg)
5	68	408

Maximum front and rear axle loads



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Rear axle load (kg)	Front axle load (kg)
1,330	1,175

Engine	Option		Caravan/Trailer
3.2 Litre V6	With trailer brake	kg	2,000kg
	Without trailer brake	kg	750kg
Roof rails capacity	MaXX – 75kg		

LOADING THE VEHICLE cont.

Notes on loading the vehicle

- Place heavy objects in the rear luggage compartment as far forward as possible against the rear seat backrests. When stacking objects, place the heavier objects at the bottom. Unsecured objects in the rear luggage compartment could be thrown forward with great force during heavy braking or in an accident.
- Heavy objects can slip when the vehicle is braking heavily or driven around a bend, and the handling of the vehicle may change.
- Do not place objects in front of the rear window or on the dashboard above the instrument panel. They are reflected in the glass, obstruct the driver's vision and may be thrown through the vehicle in the event of heavy braking.
- Driving with a roof load increases the sensitivity of the vehicle to cross winds and affects vehicle handling owing to the higher centre of gravity of the vehicle.
- Do not place objects in the area where the airbags inflate. Objects can cause injury if the airbags are deployed.

Roof rails

Distribute the load evenly and secure tightly with straps so that it can not slip. Roof rail loads alter the handling of the vehicle, due to a change in the centre of gravity. When carrying loads on the roof rails, avoid hard braking, abrupt swerving or sharp steering.

Wa Rning:

The load, including the weight of the roof rails, must not exceed 75kg for the MaXX model. Distribute the load evenly.

n ote: Remember the weight of the roof rails and their load must be included when calculating the total load.

Carrying portable gas cylinders in vehicles

Wa Rning :

Gas cylinders can leak, creating a risk of fire or explosion. As a precaution, ensure adequate ventilation when carrying gas cylinders. They must be restrained from rolling around, and where possible, placed in the load area of the vehicle. it is recommended that if gas cylinders are frequently transported, a purpose built carrying compartment be used. Transportation of gas cylinders is regulated by legislation in some States.

TOWING

Trailers

The word 'Trailer' is used throughout this section and is intended to include all types of towed vehicles, such as a caravan, boat trailer or any other special purpose trailer.

Towing

The vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a trailer.

Refer to the following chart to see which equipment is specified as essential and which equipment is recommended for the weight you are towing. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

Total Trailer Mass	2,000kg Tow Bar	Trailer wiring harness	Trailer Brakes	Load Distribution
Up to 750kg	Essential	Essential	Check State law	–
From 750kg to 1,587kg	Essential	Essential	Essential	Recommended
Above 1,587kg	Essential	Essential	Essential	Essential

Wa Rning :

Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment to be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of such equipment may void your new Vehicle Warranty to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of your vehicle. It is not advisable to mix and match different brands of towing equipment, as equipment is usually designed as an integrated package.

note: For the recommended automatic shift modes to use when towing, refer to Chapter 4, Driving.

Towing with Electronic Stability Program (ESP®)

When towing with a vehicle fitted with ESP®, you may hear noise from the ESP® modulator when it is working. The ESP® is reacting to the vehicle movement caused by the trailer, which mainly occurs during cornering. This is considered normal when towing heavier trailers.

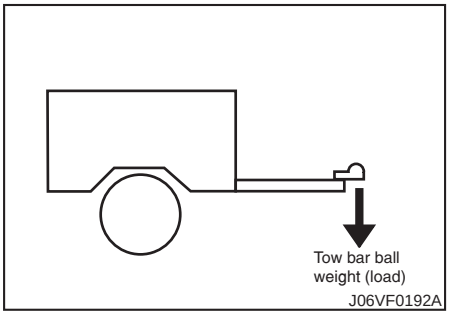
TOWING cont.

Tow bar ball load

When a trailer is hitched to the vehicle, it places weight on the tow bar. This weight is called the 'tow bar ball weight' or 'tow ball load'.

For good trailer stability it is recommended the tow bar ball weight should be 5-10% of the loaded trailer weight. This can be adjusted by correctly packing the contents of the trailer. For example, by moving items forward or backward within the trailer so as to change the balance of the trailer.

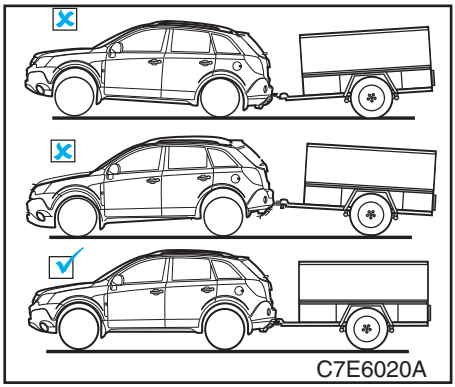
If the tow bar ball weight is too light or too heavy, the steering and handling of the vehicle may be affected.



a ll towing (before you begin)

Axle loads must not be exceeded when the tow bar ball weight is included. Refer previously in this chapter for maximum axle loads. If maximum axle loads are exceeded, sufficient weight should be removed from the rear of the vehicle and transferred onto the trailer.

Ensure the weight of the packed trailer is not greater than the towing capacity of the Holden approved tow bar package fitted to the vehicle.



TOWING PRECAUTIONS

- When heavily loading your vehicle or when towing, your tyres should be inflated to the maximum recommended pressure, refer to Chapter 7, Weekly checks, for tyre placard and information about tyre pressures. Also, refer to Chapter 4, Driving, under 'Loading the vehicle', for driving information with increased loads.
- Ensure the load distribution hitch is correctly distributing the tow ball load.
- Tighten the tow ball retaining nut to 175Nm (Newton Meters) and check the torque frequently.
- Vehicles handle differently when towing. It is a good idea to make a couple of short-distance trips with the trailer before setting off on a longer journey.
- Have your vehicle correctly maintained and serviced.
- Have the trailer maintained and serviced, with particular attention to the condition of the brakes, tyres, suspension, wheel bearings, lighting and the tow coupling.
- Use extended-arm rear view mirrors on both sides of the vehicle.
- Headlights may need realignment after the loaded trailer has been hitched, particularly if a load distribution hitch is not used.
- Use a lower gear, rather than the brakes, when descending steep hills.
- At highway speeds it is recommended to use the cruise control, this prevents the transmission from unnecessarily changing gears (particularly on grades). Refer to Chapter 4 Driving for further information.
- The use of axle-mounted hitches is not recommended as this will damage the vehicle.
- Ensure that no part of the tow bar (including the tongue or tow ball) obscures the vehicle's licence plate. If necessary, remove the tow bar tongue when it is not in use.
- If a tow bar is removed:
  Ensure to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.

Trailer brakes

Trailer brakes are mandatory on trailers weighing 750kg and over when loaded. The brakes on the trailer must be designed to cope with the braking requirements of the trailer under all towing conditions, without adversely affecting the brakes on the vehicle.

TOWING PRECAUTIONS cont.

Roof rails

For occupant safety, and to avoid damaging the vehicle's roof, refer to your Holden Dealer for an approved roof rail system for your vehicle.

Fitting accessories (roo bars, driving lamps, insect screens, etc)

When fitting accessories, take care not to restrict airflow through the air conditioner condenser and the radiator, otherwise engine overheating and / or poor air conditioning performance may result.

The mass of all accessories must be considered when evaluating the vehicle's overall loaded condition.

Remember that roo bars may affect airbag operation. Refer to Chapter 6, Emergencies, for details.

Running in before towing

Holden recommends that you drive your new vehicle for at least 1500 km before towing. If you must tow in the first 1500 km of the vehicle's life, do not exceed 80 km/h.

The same applies if the vehicle is equipped with a new or reconditioned engine, transmission or axle.

Off road loading and towing

Driving the vehicle off road may induce higher loads than normal on road driving. To reduce the risk of damage to your vehicle (and trailer) and to improve safety when operating off road, reduce the vehicle speed and minimise the load being carried (or towed).

Vehicle maintenance

More frequent vehicle maintenance is required when using the vehicle for towing. Refer to the Service/Warranty booklet in the vehicles glovebox.

Towing notes

A load distribution hitch transfers load to the vehicles front wheels aiding brake performance. This also enables more load to be carried in the vehicle without exceeding the rear axle load limit.

CHAPTER 10

Cleaning

Page

10-2 Interior cleaning

10-4 Exterior cleaning

10-8 Cleaning products

✻ The asterisk signifies equipment options not in all vehicles (model variants, engine options, optional equipment and Genuine Holden Parts and Accessories).

INTERIOR CLEANING

WARNING:

Many cleaners are toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Ensure the vehicle is well ventilated while using any cleaners and always follow the cleaning product manufacturer's recommendations. Water based cleaners, rather than solvent based cleaners, are recommended.

Steam cleaning of seats is not recommended.

Upholstery

Dust and dirt accumulate on upholstery and should be removed every few weeks, more often with constant driving. This can be done readily with a vacuum cleaner. Before attempting to remove spots and stains, it is necessary to determine:

- The type of fabric.
- The nature and age of the stain.
- The effect of the stain removal agent on the upholstery.

Remove stains as soon as possible. If a stain remains for any length of time it may oxidise or set, making removal very difficult, if not impossible.

Velour door trim

Marks on the velour fabric, which extends to the bottom of the door, can be cleaned off using mild, soapy water on a clean cloth, rubbed in the direction of the pile. When dry, use a soft brush to smooth the pile.

Vinyl

Vinyl fabrics are used for seating, headlinings and auxiliary trimming. Wipe over the surface with a dry cloth during the regular cleaning of the vehicle.

Should dirt accumulate and become embedded in the material pattern:

1. Use lukewarm water and soap, or a good quality velour fabric and vinyl cleaner, to work up thick suds on a piece of cheesecloth and apply to the surface. A soft bristle brush can be used to remove embedded dirt and stubborn stains.
2. Repeat using only a damp cloth and no soap.
3. Wipe dry with a soft cloth. The above cleaning instructions also apply to the rubber floor mats.

Cloth

To clean seats upholstered with cloth, observe the following instructions:

- Remove loose dirt and dust with a vacuum cleaner or soft brush.
- DO NOT use a whisk broom or a coarse hair brush.
- For normal soiling, sponge lightly with warm water containing a mild detergent. Rub the fabric lightly and, if necessary, sponge again to remove any stubborn stains. Soak up excess fluid with a dry cloth. A good quality velour fabric and vinyl cleaner may be used, but should be used sparingly.

INTERIOR CLEANING cont.

Carpet

Thoroughly brush or vacuum the carpet. In many instances the carpet may require no further cleaning. If the carpet is extremely soiled, thoroughly vacuum it to remove loose dirt then, using a good quality velour fabric and vinyl cleaner, clean a small area at a time. After each area is cleaned, remove as much of the cleaner as possible with a vacuum cleaner.

Secured carpet mats ❇

Retainers are provided to hold carpet mats in place. Use a screwdriver or similar (not the vehicle key) to undo the retainers when required. To replace, push the retainer on the back of the mat into the hole in the carpet and turn clockwise to secure.

Leather ❇

To remove surface soil and dirt from leather, clean regularly using a leather revitaliser. Apply using a lint free cloth and rub onto leather, do not saturate the leather with the cleaner and do not pour it directly onto the leather. Allow the leather to dry naturally. A mild detergent may be used as an alternative to a leather revitaliser.

For deeply embedded soil and dirt, use a leather cleaner. This should be applied using the same process as leather revitaliser. After using a leather cleaner / revitaliser apply a leather protector. A leather protector is designed to repel dirt and provides water resistance.

Note:

- Clean and protect leather at least twice a year.
- Do not use synthetic cloths or brushes for cleaning the leather as this may damage the leather.
- Solvents may damage and / or discolour the leather and should not be used.
- The leather may shrink and harden if exposed to direct sunlight for extended periods. If possible park in the shade or cover the leather.
- Do not leave items on the leather that may melt and stick to leather, for example, plastic bags.

Seat belts

Clean seat belts only with a mild, non-abrasive soap and lukewarm water. After washing, be sure to thoroughly sponge the washing solution out of the belts.

WARNING:

Do not bleach or dye seat belts as this may severely weaken them.

Interior glass

Clean interior glass of the vehicle using a good quality glass cleaner, such as Holden Glass Cleaner, and a clean soft cloth. Take care when cleaning inside the rear window so as not to damage the rear window demister or radio antenna.

Never use abrasive cleaners on any vehicle glass, as they can cause scratches.

EXTERIOR CLEANING

Caring for paint

To help preserve that shiny new vehicle finish, pay special attention to correctly treating those conditions that can damage the paint.

- **Road bloom**: If, over a long period of time, oils, dirt, exhaust and other pollutants are allowed to build up, they may combine to affect the paint finish.
- **Etching**: Tree sap, bird droppings, salt water and other natural deposits can, if allowed to stay on the paint, leave an etching or scarring.
- **Pitting**: Tar spots and some industrial fallout can react chemically and may cause pitting to the surface of the paint.

Paint inspection

Inspect the vehicle regularly for scratch marks, cracks or damaged areas, all of which could develop rust. Any deep scratches, cracks or breakdown in the finish should be repaired without delay. Take care to ensure that any rusting is counteracted immediately, otherwise rust 'creep' will extend beyond the damaged area, particularly in tropical or coastal areas, where the moist, or salt-laden air accelerates rusting. The paint finish of the vehicle gives a very high degree of protection against the weather, but wear and deterioration occur when the vehicle is exposed to elements for prolonged periods. The vehicle therefore should be garaged whenever possible.

To prevent damage of the paint surface, remove foreign matter as soon as possible.

Note: Due to the acidity, remove foreign matter such as bird droppings within 24 hours.

Washing the vehicle

The easiest way to keep the paint looking as new is to keep it clean. A wash once a week will keep the vehicle in good condition. However, it must be washed correctly.

Note:

- Never use an automatic wash that requires anything touching the paint (other than water).
- Wash the vehicle once a week to remove build up of any grime on the paint.
- Never wash the vehicle in direct sunlight; find a shady spot to wash the vehicle.

1. Hose the vehicle down from top to bottom with plenty of cold water (in accordance with current water restrictions, if any). This removes any grit or other loose particles and substances. Do not use a sponge or cloth at this point.
2. Fill a bucket with lukewarm water and add no more than two capfuls of gentle detergent, such as Holden Hi Suds Car Wash. Do not use hot water, strong soap or chemical detergents.
3. To remove bird droppings, soak with a wet sponge for several minutes before washing off. If still persistent, use a solution of one litre of water and 110 grams of dissolved baking soda (bicarbonate of soda). Rinse the area with clean water.
4. Starting with the roof, use a clean sponge to clean a small section at a time. Do not allow liquid to dry before rinsing off that section with clean water. When all sections are completed, rinse the whole vehicle again with clean water.
5. Dry the vehicle thoroughly with a good quality chamois.

EXTERIOR CLEANING cont.

WARNING:

Take care when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Removing stains (grease, oil and tar spots)

Washing the vehicle regularly means that most of the harmful substances deposited on the paint are removed before they can cause permanent damage. However, some substances are not easy to remove. If you notice stains on the paint, make sure that you remove them at the earliest possible opportunity.

Grease and oil, and even tar if it's fresh, can be removed from the paint with a little kerosene or turpentine. As a precaution against staining, wash and polish the area as soon as possible after the stain has been removed. A rubbing or cutting compound can be used after a normal wash. Do not do this on a regular basis as it removes paint.

WARNING:

- **Some chemical cleaners, used for removing road oils and tars from painted surfaces, have been found to be detrimental to automotive paint.**
- **If petrol is spilt on the paint when refilling, flush off immediately with clean water as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.**
- **Petrol MUST NOT be used to clean any painted or plastic surfaces.**

Air intakes

The intake area between the bonnet and windscreen can collect leaves which impairs air flow into the vehicle. Also, the air intake area below the front bumper may collect leaves and road grime, which impairs engine cooling. Refer to 'Miscellaneous checks' in Chapter 7 Weekly Checks. Clear this area of debris whenever the vehicle is washed.

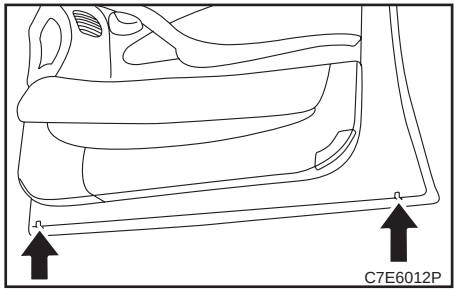
Under vehicle washing

The effects of substances such as salt from road surfaces can cause rust under the vehicle. Hose the underbody with clean water whenever the vehicle is washed. In geographical areas having a heavy concentration of corrosive materials (such as by the sea), it is recommended the complete underbody be inspected and washed at least once each year, preferably after winter exposure. Pay particular attention to cleaning out the underbody where dirt and other foreign materials may have collected.

Door drain holes

It is important the drain holes at the bottom of the door panels are checked to ensure they are free of dirt and other foreign materials which could trap water inside the panels. Clean clogged drain holes with a small screwdriver.

Note: The drain holes in the doors are angled toward the rear of the vehicle.



EXTERIOR CLEANING cont.

Polishing

Under normal circumstances the paint does not need polishing to retain its shine. A weekly wash is sufficient. However, the use of a good quality polymer glaze, such as Holden Quick and Easy Speed Finish, approximately every 3 months will reduce the effects of road bloom by removing natural contaminants which can build up on the paint.

WARNING:

Do not attempt to apply a polish without first washing the vehicle to remove loose grit, surface dirt, dust or grease.

Tyres

Sponging with cold water is all that is necessary for normal cleaning. Oil and grease should be removed with soap and water or detergent. For tar or other substances, use a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, if necessary. Thoroughly wash the tyres with clean water to finish. Do not use petrol to clean tyres.

A new tyre look can be restored using a good quality tyre and bumper shine.

Alloy wheels

To preserve the original appearance of alloy wheels, keep them clean and free from build up of road dirt. A good quality wheel cleaner can be used for cleaning alloy wheels. Do not use abrasive cleaners on alloy wheels.

Glass cleaning – general

Take care not to scratch the glass. If it is cleaned at the same time as the rest of the vehicle, there is a possibility that particles of grit will cause fine scratches. Flush off any mud on the glass when washing the body, but leave the final cleaning and polishing until afterward. Use a good quality glass cleaner, such as Holden Glass Cleaner, and wash each section of glass in turn, making sure the water, its container and the sponge are quite clean and free from grit. Clean, old linen cloth is better than new material for polishing glass.

EXTERIOR CLEANING cont.

Windscreen

It is important the windscreen be kept clean so the wiper blades operate as effectively as possible. Old wiper blades can cause windscreen scratching and so should be regularly inspected and replaced.

Never use abrasive cleaners to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge, wipe it over with a soft, lint free cloth or chamois.

It is recommended that a good quality windscreen washer additive, such as Holden Optikleen, be added to the windscreen washer reservoir.

Wiper blades

Oil and road scum thrown up on the windscreen causes smearing when the wipers are switched on and is transferred onto the wiper blades. Whilst many methodically clean the windscreen glass, they often forget to clean the wiper blades. Consequently, smearing of the glass reappears immediately the wiper blades are used. Clean the blades by lifting them off the windscreen and cleaning with a good quality glass cleaner, such as Holden Optikleen, and a clean cloth.

WARNING:

Do not operate the wiper blades by hand as this damages the wiper drive mechanism.

If the wiper blades are used to clean dust and dirt from the windscreen in dry conditions, always use the washer system first to wet the windscreen. Ensure the windscreen washer reservoir is full.

Should the wiper blades freeze to the windscreen, you must lift them off and free them by hand before switching on the wipers.

CLEANING PRODUCTS

Part Number	Size	Description	Usage
92145132	237 ml	Quick and Easy Speed Finish	Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage.
92145418	437 ml	Quick and Easy Speed Finish	Seals in a deep, lustrous glazed finish. Long life protection from oxidation, salt and weather damage.
92145130	237 ml	All Purpose Cleaner	Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets.
92145416	437 ml	All Purpose Cleaner	Cleans and deodorises velour, most vinyl upholstery, hood linings, mats and carpets.
92145133	237 ml	Glass Cleaner	Cleans all glass surfaces.
92145419	437 ml	Glass Cleaner	Cleans all glass surfaces.
92140005	500 ml	Optikleen	Windscreen washer solvent.
92140004	5 ml	Optikleen Sachet	Windscreen washer solvent; 1 sachet per washer bottle refill.
92145129	237 ml	Hi Suds Car Wash	Cleans vehicle exterior.
92145415	437 ml	Hi Suds Car Wash	Cleans vehicle exterior.
92145131	237 ml	Vinyl and Trim Dressing	Seals and protects vinyl upholstery and plastic trim.
92145417	437 ml	Vinyl and Trim Dressing	Seals and protects vinyl upholstery and plastic trim.
92145140	120 ml	Leather Revitaliser	Revitalises the leather upholstery.
92145141	120 ml	Leather Cleaner	Cleans the leather upholstery.
92145142	120 ml	Leather Protector	Protects the leather upholstery.
92145143	1 Kit	Leather Care Kit	Contains leather revitaliser, cleaner and protector.
92145135		Chamois	Cloth for wiping off excess water from the vehicle's exterior after washing and rinsing.
92145134		Handle Grip Sponge	Sponge for washing the vehicle.
92145136		Microfibre Glass Cleaning Cloth	Cloth for cleaning all glass surfaces.
92145137		Microfibre General Purpose Cleaning / Polishing Cloth	Cloth for general purpose cleaning / polishing.

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